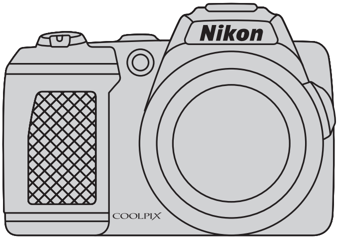
Nikon

DIGITAL CAMERA

# COOLPIX L120

# User's Manual




En

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- HDMI, (HDMI) logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- All other trade names mentioned in this manual or the other documentation provided with your Nikon product are trademarks or registered trademarks of their respective holders.

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See **http://www.mpegla.com**.

# For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:

| | |
|---|---|
| ⚠ | This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury. |

## WARNINGS

### ⚠ Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or AC adapter, unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

### ⚠ Do not disassemble

Touching the internal parts of the camera or AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.

### ⚠ Do not use the camera or AC adapter in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

### ⚠ Handle the camera strap with care

Never place the strap around the neck of an infant or child.

### ⚠ Keep out of reach of children

Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

### ⚠ Observe caution when handling the battery

The battery may leak or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the AC adapter, be sure it is unplugged.
- Use only the batteries approved for use in this product (📖 14). Do not combine old and new batteries or batteries of different makes or types.
- When charging Nikon EN-MH2 rechargeable Ni-MH batteries, use only the specified charger and charge the batteries four at a time. When replacing the batteries with EN-MH2-B2 batteries (available separately), purchase two sets (total of four batteries).
- The EN-MH2 rechargeable batteries are for use with Nikon digital cameras only, and are compatible with COOLPIX L120.
- Insert batteries in the correct orientation.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Do not transport or store with metal objects such as necklaces or hairpins.
- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

### ⚠ Observe the following precautions when handling the Battery Chargers (available separately)

- Keep Dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the power cable or go near the battery charger during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flame. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or result in overheating or fire.

### ⚠ Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

### ⚠ Handle moving parts with care

Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts.

### ⚠ CD-ROMs

The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

### ⚠ Observe caution when using the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than 1 m (3 ft. 4 in.) from the subject.

### ⚠ Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

### ⚠ Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

### ⚠ Turn the power off when using inside an airplane or the hospital

Turn the power off while inside the airplane during take off or landing. Follow the instructions of the hospital when using while in a hospital. The electromagnetic waves given out by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital.

# Notices

## Notice for Customers in the U.S.A.

### Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Nikon
COOLPIX L120

### CAUTIONS

### Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

### Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

### Notice for customers in the State of California

### WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

***Wash hands after handling***.

Nikon Inc.,

1300 Walt Whitman Road
Melville, New York 11747-3064
USA

Tel: 631-547-4200

## Notice for customers in Canada

### CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

### ATTENTION

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Symbol for Separate Collection in European Countries



This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.



This symbol on the battery indicates that the battery is to be collected separately.

The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

# Table of Contents

# About This Manual

Thank you for purchasing a Nikon COOLPIX L120 digital camera. This manual was written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.



## Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:

| | |
|---|---|
| This icon marks cautions, information that should be read before use, to prevent damage to the camera. | This icon marks tips, additional information that may be helpful when using the camera. |
| This icon marks notes, information that should be read before using the camera. | This icon indicates that more information is available elsewhere in this manual or in the *Quick Start Guide*. |

## Notations

- Secure Digital (SD) memory card, SDHC memory card, and SDXC memory card are referred to as "memory card."
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed in the computer monitor appear in bold.

## Screen Samples

In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.

## Illustrations and Screen Display

Illustrations and text displays shown in this manual may differ from actual display.

### Memory Cards

Pictures taken with this camera can be stored in the camera's internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or used to store, delete or view pictures.

# Information and Precautions



## Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites:

- For users in the U.S.A.: *http://www.nikonusa.com/*
- For users in Europe and Africa: *http://www.europe-nikon.com/support/*
- For users in Asia, Oceania, and the Middle East: *http://www.nikon-asia.com/*

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

*http://imaging.nikon.com/*

## Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

## Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning correctly. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

## About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

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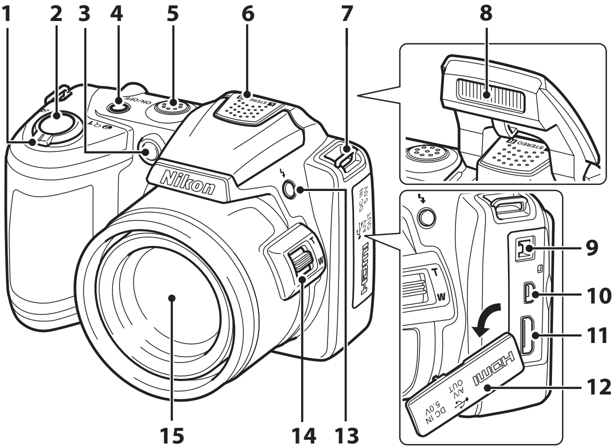
## Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

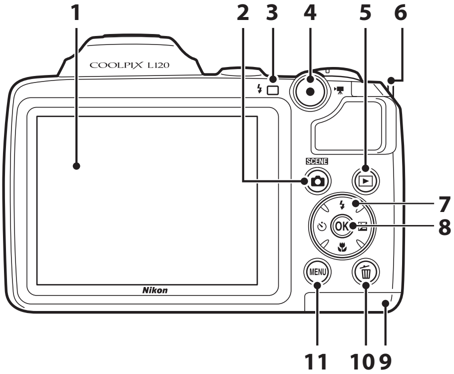
Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the welcome screen (📖 105). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

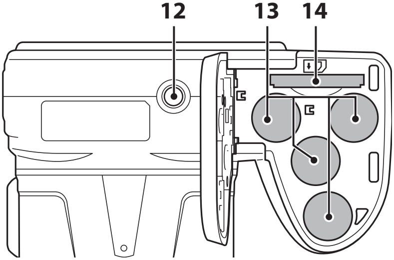
# Parts of the Camera

## The Camera Body




| | |
|---|---|
| 1 | Zoom control ........ 23<br>W : wide ........ 23<br>T : tele ........ 23<br>▦ : thumbnail playback ........ 62<br>🔍 : playback zoom ........ 64<br>❓ : help ........ 35 |
| 2 | Shutter-release button ........ 24 |
| 3 | Self-timer lamp ........ 31<br>AF-assist illuminator ........ 25, 115 |
| 4 | Power switch/Power-on lamp ........ 20, 116 |
| 5 | Speaker ........ 87 |
| 6 | Built-in microphone (stereo) ........ 79 |
| 7 | Eyelet for camera strap ........ 6 |
| 8 | Flash ........ 7, 28 |
| 9 | DC input connector (for AC adapter available separately from Nikon) ........ 15, 129 |
| 10 | USB connector and audio/video output ........ 90, 93, 98 |
| 11 | HDMI mini connector ........ 90 |
| 12 | Pin cover ........ 90, 93, 98 |
| 13 | ⚡ (flash pop-up) button ........ 7, 28 |
| 14 | Side zoom control ........ 23 |
| 15 | Lens ........ 127, 141 |

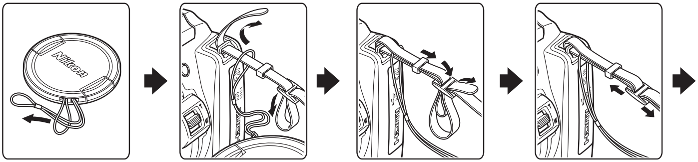


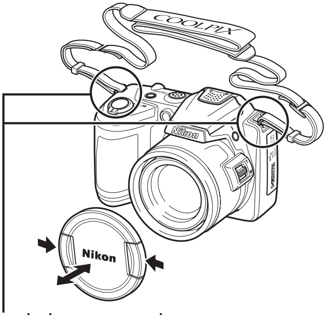




| | |
|---|---|
| 1 | Monitor ....................8 |
| 2 | 📷 (shooting mode) button ....................10 |
| 3 | Flash lamp ....................28 |
| 4 | ● (🎥 movie-record) button ....................10 |
| 5 | ▶ (playback) button ....................10, 26 |
| 6 | Eyelet for camera strap ....................6 |
| 7 | Multi selector ....................11 |
| 8 | OK (apply selection) button ....................11 |
| 9 | Battery-chamber/ memory card slot cover ....................14, 18 |
| 10 | 🗑 (delete) button ....................27, 87 |
| 11 | MENU button ....................12, 52, 66, 82, 104 |
| 12 | Tripod socket ....................142 |
| 13 | Battery-chamber ....................14 |
| 14 | Memory card slot ....................18 |

## Attaching the Camera Strap and Lens Cap

Attach the lens cap to the camera strap, and then attach the strap to the camera.





Attach them at two places.

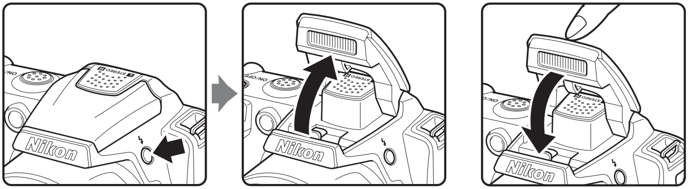
### Lens Cap

- Remove the lens cap before you take a picture.
- At times when you will not be taking pictures such as when the power is off or while you are carrying the camera, attach the lens cap to the camera to protect the lens.

## Raising and Lowering the Flash

Press the ⚡ (flash pop-up) button to raise the flash.

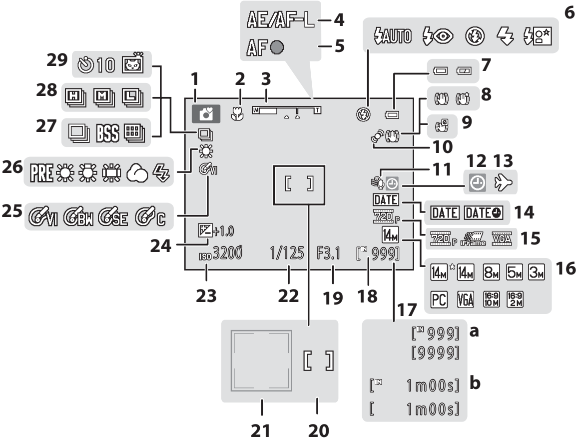
- See "Using the Flash" (📖 28) for more information on setting the flash.
- Push the flash down gently to lower the flash until it clicks into place when not in use.



## The Monitor

The following indicators may be displayed in the monitor during shooting and playback (actual display varies with current camera settings).
The indicators and photo info displayed during shooting and playback will turn off after a few seconds (📖 110).

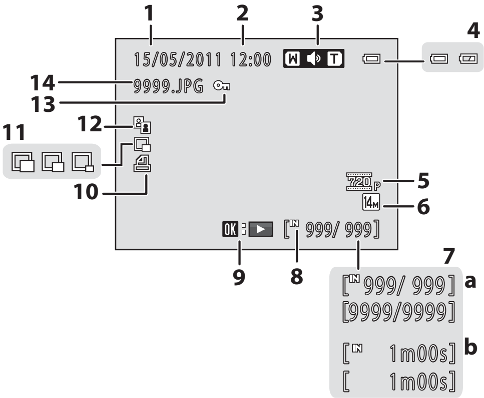
### Shooting




| | |
|---|---|
| 1 | Shooting mode* .... 20, 33, 46, 48, 50, 79 |
| 2 | Macro mode .... 51 |
| 3 | Zoom indicator .... 23, 51 |
| 4 | AE/AF-L indicator .... 45 |
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| 7 | Battery level indicator .... 20 |
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| 10 | Motion detection icon .... 21, 114 |
| 11 | Wind noise reduction .... 86 |
| 12 | "Date not set" indicator .... 132 |
| 13 | Travel destination indicator .... 106 |
| 14 | Print date .... 112 |
| 15 | Movie options .... 84 |
| 16 | Image mode .... 53 |
| 17 | **a** Number of exposures remaining (still images) .... 20<br>**b** Movie length .... 79 |
| 18 | Internal memory indicator .... 21 |
| 19 | Aperture .... 24 |
| 20 | Focus area .... 22, 24 |
| 21 | Focus area (Face Detection, Pet Detection) .... 22, 24 |
| 22 | Shutter speed .... 24 |
| 23 | ISO sensitivity .... 30, 58 |
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| 25 | Color options .... 59 |
| 26 | White balance mode .... 55 |
| 27 | Continuous shooting mode .... 57 |
| 28 | Type of sport continuous mode .... 49 |
| 29 | Self-timer indicator/Pet portrait auto release .... 31, 43 |

* The icon displayed varies with the shooting mode.

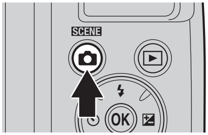
## Playback




| | | | |
|---|---|---|---|
| 1 | Date of recording ........ 16 | 8 | Internal memory indicator ........ 26 |
| 2 | Time of recording ........ 16 | 9 | Movie playback indicator ........ 87 |
| 3 | Volume ........ 87 | 10 | Print order icon ........ 67 |
| 4 | Battery level indicator ........ 20 | 11 | Small picture ........ 77 |
| 5 | Movie options* ........ 84 | 12 | D-Lighting icon ........ 76 |
| 6 | Image mode* ........ 53 | 13 | Protect icon ........ 71 |
| 7 | **a** Current frame number/ total number of frames ........ 26<br>**b** Movie length ........ 87 | 14 | File number and type ........ 131 |

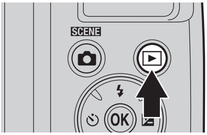
* The icon displayed varies with the setting that was set at the time of shooting.

## (Shooting mode) Button



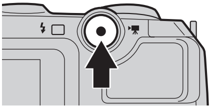

- Press the button in playback mode to enter shooting mode.
- Press the button in shooting mode to display the shooting-mode selection menu and change the shooting mode (33).

## (Playback) Button




- During shooting mode, the camera enters the playback mode when the button is pressed.
- If the camera is turned off, hold down the button to turn the camera on in playback mode.

## ● ( Movie-record) Button



- Press the ● ( movie-record) button in shooting mode to start recording a movie. Press the ● ( movie-record) button again to stop recording.
- Press the ● ( movie-record) button in playback mode to enter shooting mode.

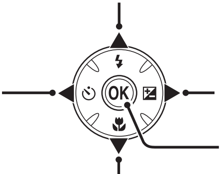
# The Multi Selector

Operate the multi selector by pressing it up (▲), down (▼), left (◀), right (▶), or by pressing the OK button.

## For Shooting

Display flash (flash mode) menu (📖 28)/select the item above.

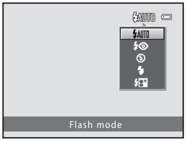
Display self-timer (self-timer) menu (📖 31).



Display exposure (exposure compensation) menu (📖 32).

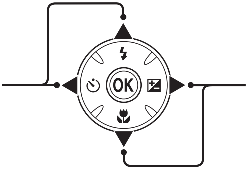
Apply selection.

Display macro (macro mode) menu (📖 51)/select the item below.

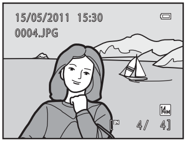



## For Playback

Display the previous image.



Display the next image.

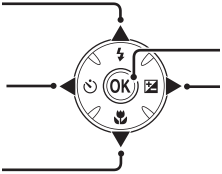



## For the Menu Screen

Select the item above.

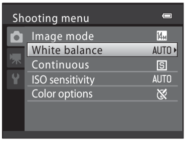
Select the item on the left/ return to the previous screen.

Select the item below.



Apply selection (Go to the next screen).

Select the item on the right/ go to the next screen (apply selection).



# Using Camera Menus

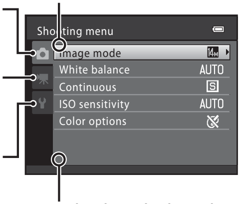
Press the MENU button (📖 5) to display the menu for the selected mode. Use the multi selector (📖 11) to apply settings of each menu item.

Tab for the menus available in the current shooting mode/ tab for playback menu

Tab for movie menu (during shooting mode)/setup menu (during playback mode)

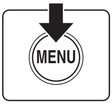
Tab for displaying the setup menu (during shooting mode)

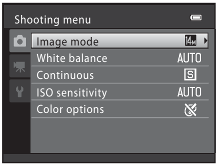
△ is displayed when previous menu items are available.




▽ is displayed when there are one or more menu items to follow.

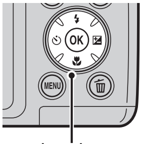
## 1 Press the MENU button.



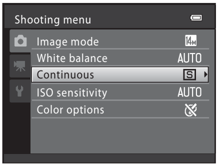




## 2 Press the multi selector ▲ or ▼ to choose an item, and then press ▶ or the OK button.

To change tabs, press ◀ (📖 13).

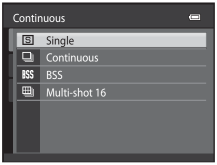



Multi selector




## 3 Press ▲ or ▼ to choose an item and press the OK button.

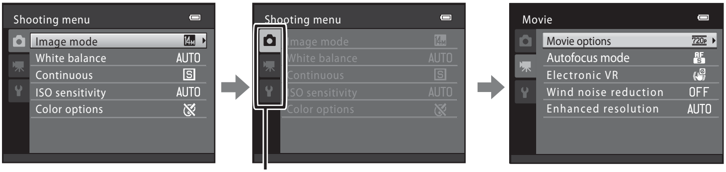
The setting is applied.




## 4 When setting is finished, press the MENU button.

The camera exits the menu display.

## Switching Between Tabs of Menu Screen




Press the multi selector ◀ to highlight the tab.

Press the multi selector ▲ or ▼ to select a tab and press the ⓚ button or ▶.

The selected menu will be displayed.

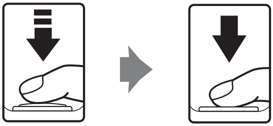
To display the tabs, press the multi selector ◀ while the menu is displayed in the following modes.

- Easy auto mode, scene mode and smart portrait mode

## About the Shutter-release Button

The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. When the shutter-release button is pressed halfway, focus and exposure (shutter speed and aperture value) are set. Focus and exposure remain locked while the shutter-release button is pressed halfway.

While the shutter-release button is held in this position, release the shutter and take a picture by pressing the shutter-release button the rest of the way down. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images.



Press the shutter-release button halfway to set focus and exposure.

Press the shutter-release button the rest of the way down to take a picture.

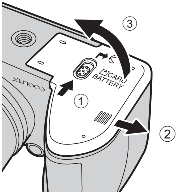
# Inserting the Batteries



**1** Open the battery-chamber/memory card slot cover.

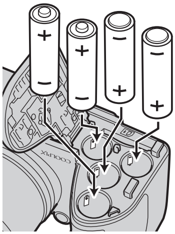
Before opening the battery-chamber/memory card slot cover, hold the camera upside down to prevent the batteries from falling out.

The camera, batteries or memory card may be hot immediately after using the camera. Observe caution when removing the batteries or memory card.



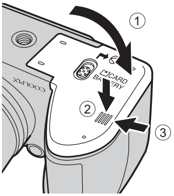
**2** Insert the Batteries

Confirm that the positive (+) and negative (-) terminals are oriented correctly as described on the label at the entrance of the battery chamber, and insert the batteries.



**3** Close the battery-chamber/memory card slot cover.

Slide the cover while securely holding down the area marked ②.

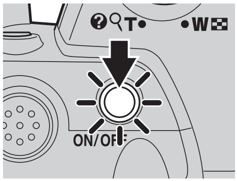


## Applicable Batteries

- Four LR6/L40 (AA-size) alkaline batteries (batteries supplied)
- Four FR6/L91 (AA-size) lithium batteries
- Four EN-MH2 rechargeable Ni-MH (nickel metal hydride) batteries

* EN-MH1 rechargeable Ni-MH batteries cannot be used.

## Turning On and Off the Camera



Remove the lens cap, and then press the power switch to turn on the camera. The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on).
Press the power switch again to turn the camera off. When the camera turns off, both the power-on lamp and monitor turn off.
If the camera is turned off, hold down the ▶ button to turn the camera on in playback mode (📖 26).

## If Turn the camera off, remove the lens cap, and turn the camera on. is displayed

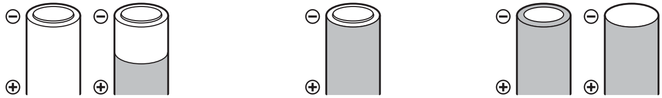
Make sure that the lens cap has been removed, and turn the camera off and then on again.

## Removing the Batteries

Turn the camera off and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/memory card slot cover.

## Additional Precautions Regarding Batteries

- Read and follow the warnings and cautions (📖 iii, 126).
- Be sure to read and follow the warnings for the battery on page iii and the section, “The Battery” (📖 126), before using the battery.
- Do not combine old and new batteries or batteries of different makes or types.
- Batteries with the following defects cannot be used:



Batteries with peeling | Batteries with insulation that does not cover the area around the negative terminal | Batteries with a flat negative terminal

## Note on the EN-MH2 rechargeable Ni-MH batteries

When using EN-MH2 batteries with the COOLPIX L120, charge the batteries four at a time using Battery Charger MH-73 (📖 123, 129).

## Battery Type

To improve battery performance, set the Battery type setting (📖 123) in the setup menu (📖 103) to match the type of batteries inserted into the camera.

The default setting is the type of battery supplied with purchase. When any other type of battery is used, turn the camera on and change the setting.

## Alkaline Batteries

Performance of alkaline batteries may vary greatly depending on the manufacturer. Choose a reliable brand.

## Alternative Power Sources

To power the camera continuously for extended periods, use an AC Adapter EH-67 (available separately) (📖 129). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

## Power Saving Function (Auto Off)

If no operations are performed for a while, the monitor will turn off, the camera will enter standby mode, and the power-on lamp will blink. If no operations are performed for another three minutes, the camera will turn off automatically.

When the power-on lamp is blinking, pressing any of the following buttons will turn the monitor back on.

→ Power switch, shutter-release button, 📷 button, ▶ button, or ● (🎥 movie-record) button

In shooting or playback mode, the camera will enter standby mode in about 30 seconds (default setting).

- The time allowed to elapse before the camera enters standby mode can be changed from the **Auto off** option (📖 116) in the setup menu (📖 103).

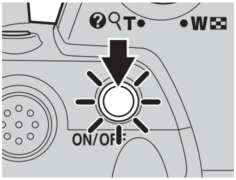
# Setting Display Language, Date and Time

When the first time the camera is turned on, the language- selection screen and the date and time setting screen for the camera clock are displayed.

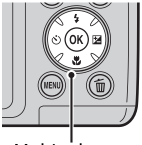


**1** Press the power switch to turn on the camera.

The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on).




**2** Press the multi selector ▲ or ▼ to choose the desired language and press the ⓚ button.

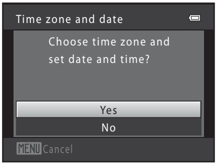



Multi selector

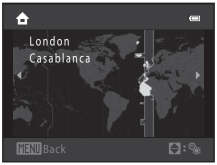



**3** Press ▲ or ▼ to choose **Yes** and press the ⓚ button.

To cancel the time zone and date settings, select **No**.



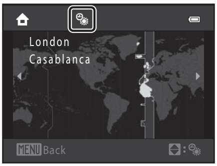

**4** Press ◀ or ▶ to choose your home time zone (□ 109) and press the ⓚ button.



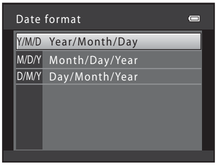

## Daylight Saving Time

If daylight saving time is in effect, press ▲ to enable the daylight saving time function while setting the region in step 4.

When the daylight saving time function is enabled, ☀ is displayed at the top of the monitor. Press ▼ to disable the daylight saving time function.



## 5 Press ▲ or ▼ to choose the date format, and press the OK button or ▶.

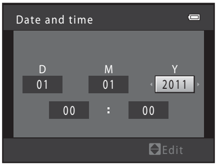



## 6 Press ▲, ◀, ▼, or ▶ to set the date and press the OK button.

Choose an item: Press ▶ or ◀ (to change between **D**, **M**, **Y**, **Hour**, and **Minute**).

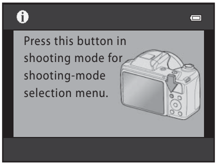
Edit the highlighted item: Press ▲ or ▼.

Apply the setting: Choose **Minute** and press the OK button or ▶.




## 7 Make sure that the lens cap has been removed, then press the 📷 button.

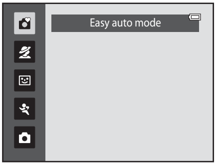
The lens extends and the shooting-mode selection screen is displayed.




## 8 When **Easy auto mode** is displayed, press the OK button.

The camera enters shooting mode and you can take pictures in Easy auto mode (📖 20).

Press the multi selector ▲ or ▼ before pressing the OK button, to switch to another shooting mode (📖 33).




### Print Date and Changing the Date and Time

- To imprint the date on images while taking pictures, set **Print date** (📖 112) in the setup menu (📖 103) after the date and time have been set.
- To change the date and time settings of the camera clock, select the **Time zone and date** option (📖 106) in the setup menu (📖 103).

# Inserting Memory Cards

Data is saved in the camera's internal memory (approximately 102 MB) or on removable Secure Digital (SD) memory cards (commercially available; (□ 129).

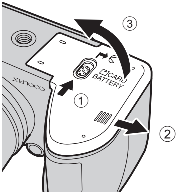
*If a memory card is inserted into the camera, images are automatically saved on the memory card and images saved to the memory card can be played back, deleted or transferred. Remove the memory card to save images in the internal memory, or play back, delete or transfer images from the internal memory.*



**1** Confirm the power-on lamp and the monitor are off and open the battery-chamber/memory card slot cover.

Be sure to turn off the camera before opening the battery-chamber/memory card slot cover.

Before opening the battery-chamber/memory card slot cover, hold the camera upside down to prevent the batteries from falling out.

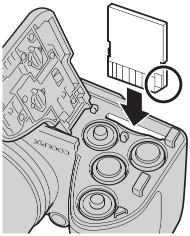



**2** Insert the memory card.

Slide the memory card in until it clicks into place.

### ✔ Inserting Memory Cards

**Inserting the memory card upside down or backwards could damage the camera or the memory card.** Make sure that the memory card is correctly oriented.



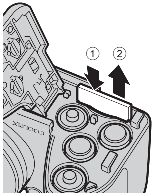
**3** Close the battery-chamber/memory card slot cover.

## Removing Memory Cards

Turn the camera off and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/memory card slot cover.

Press the card in (①) to partially eject the card, then remove the card by hand while being careful not to remove it at an angle (②).

- The camera, battery or memory card may be hot immediately after using the camera. Observe caution when removing the batteries or memory card.



## Formatting Memory Cards




If the message on the right is displayed, the memory card must be formatted before use (□ 117). ***Note that formatting permanently deletes all images and other data on the memory card.*** Be sure to make copies of any images you wish to keep before formatting the memory card.

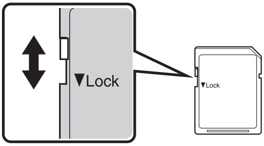
To format the memory card, use the multi selector to select **Yes** and press the OK button. To start formatting, choose **Format** and press the OK button.

- *Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.*
- ***The first time you insert the memory cards used in other devices into the camera, be sure to format them using this camera (□ 117).***

## The Write Protect Switch

When memory card switch is in the lock position, data cannot be written to, or deleted from, the memory card. If the switch is in the lock position, unlock it by sliding the switch to the write position to save or delete images, or to format the memory card.

Write protect switch




## Memory Cards

- Use only Secure Digital memory cards.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
  - Insert or remove the card
  - Remove the batteries
  - Turn off the camera
  - Disconnect the AC adapter
- Do not format the memory card using a computer.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shocks.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight, closed vehicles or areas exposed to high temperatures.
- Do not expose to humidity, dust, or to corrosive gases.

# Step 1 Turn the Camera On and Select (Easy Auto) Mode

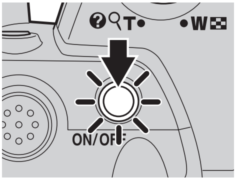
In (easy auto) mode, the camera automatically determines an appropriate shooting mode when you frame a picture, allowing you to easily take pictures using a shooting mode that suits the scene (34).

**1** Remove the lens cap and press the power switch to turn on the camera.

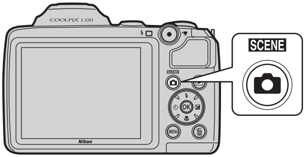
The lens extends and the monitor turns on.

Press the (flash pop-up) button to raise the flash (7).

Easy auto mode is set at the time of purchase. Proceed to step 4.

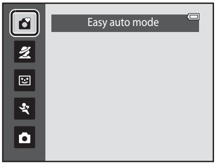



**2** Press the button.




**3** Press the multi selector ▲ or ▼ to choose **Easy auto mode** and press the OK button.

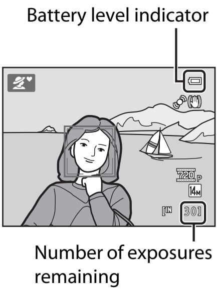
The camera enters (easy auto) mode.




**4** Check the battery level and number of exposures remaining.

Battery level indicator

| Display | Description |
|---|---|
| | Battery level high. |
| | Battery level low.<br>Prepare to replace batteries. |
| Battery exhausted. | Cannot take pictures.<br>Replace the batteries. |




Number of Exposures Remaining

The number of pictures that can be taken is displayed.

The number of images that can be saved varies depending on the capacity of the internal memory or memory card and image mode setting (53).

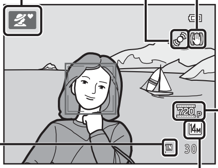
# Indicators Displayed in (Easy auto) Mode

**Shooting mode**
In easy auto mode, the camera automatically selects , , , , , , or mode according to the current subject and framing.

**Motion detection icon**
Reduce the blurring caused by subject movement or camera shake.

**Vibration reduction icon**
Reduce the effects of camera shake.

**Internal memory indicator**
Images will be saved to internal memory (approximately 102 MB). When a memory card is inserted, IN is not displayed and images will be saved to memory card.




**Movie options**
Displays the movie setting used when recording movies (□ 79, 84).

**Image mode**
Display image size and quality (compression) set in the image mode menu. The default setting is 14M **4320×3240**.

- The indicators and photo info displayed during shooting and playback will turn off after a few seconds (□ 110).
- When the monitor has turned off in standby mode to save power (the power-on lamp is blinking) (□ 116), press the following buttons to turn it back on.

→ Power switch, shutter-release button, button, or ● (movie-record) button

## Functions Available in Easy Auto Mode

- When the camera is pointed at a person's face, the camera automatically detects the face and focuses on it (□ 24, 34).
- The self-timer (□ 31) and exposure compensation (□ 32) are available.
- The macro mode button (□ 11, 51) on the multi selector is not available. Changes to macro mode when the camera selects close-up scene mode.
- Press the MENU button to change the combination of image quality (compression) and image size in **Image mode** (□ 53).

## Note on the Flash

When the flash is lowered, the flash setting is fixed at off and is displayed at the top of the monitor. In situations where flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the flash by hand (□ 7, 28).

## Notes on Vibration Reduction and Motion Detection

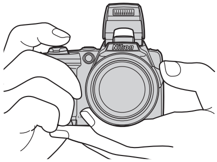
- See **Vibration reduction** (□ 113) or **Motion detection** (□ 114) in the setup menu (□ 103) for more information.
- Set **Vibration reduction** to **Off** when using a tripod.

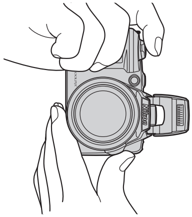
# Step 2 Frame a Picture

## 1 Ready the camera.

Hold the camera steadily in both hands.

Keep fingers, hair and other objects away from the lens, flash, AF assist-illuminator and microphone.



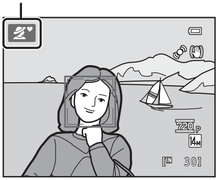


## 2 Frame the picture.

When the camera determines a scene mode, the shooting mode icon changes (□ 34).

When the camera detects a human face, that face will be framed by a yellow double border (AF area).
Up to 12 faces can be detected. When the camera detects more than one face, the face closest to the camera is framed by a double border and the others by single borders.

Shooting mode icon




When shooting non-human subjects or when no faces are detected, the camera will focus on the subject in the center of the frame. Position the main subject near the center of the focus area.

### Notes on Easy Auto Mode

- The desired scene mode may not be selected in certain conditions. In this case, select another shooting mode.
- When digital zoom is in effect, the shooting mode is [icon].

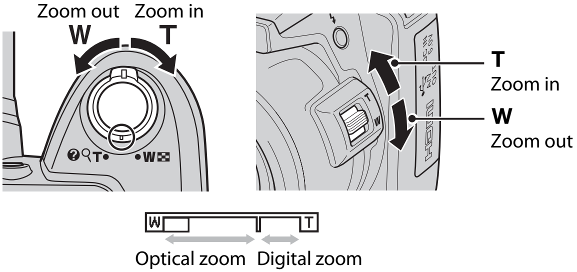
## Using the Zoom

Use the zoom control to activate optical zoom.

Rotate the zoom control toward **T** to zoom in, increasing the size of the subject.

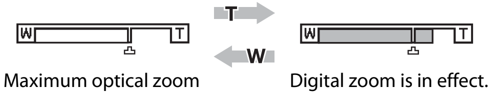
Rotate the zoom control toward **W** to zoom out, increasing the area visible in the frame.

- The side zoom control can be turned toward **T** or **W** to operate the zoom.
- When the camera is turned on, the zoom is at the maximum wide-angle position.
- A zoom indicator is displayed at the top of the monitor when the zoom control is operated.




### Digital Zoom

When the camera is zoomed in to the maximum optical zoom position, turning and holding the zoom control or the side zoom control toward **T** triggers digital zoom. Digital zoom can magnify the subject up to about 4× beyond the magnification of the optical zoom.




- When digital zoom is used, the focus area is not displayed and the camera focuses in the center of the frame.

### Digital Zoom and Interpolation

Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of image quality.

Interpolation is applied when taking still images at zoom positions beyond 凸.

When zoom is increased beyond the 凸 position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied.

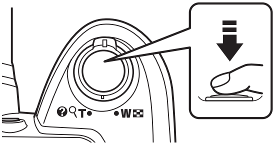
The position of 凸 moves to the right as image size decreases, allowing you to confirm the zoom positions at which still images can be captured without interpolation using the current image mode setting.




When the image size is small.

# Step 3 Focus and Shoot

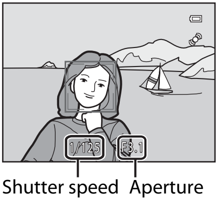
## 1 Press the shutter-release button halfway.



When the shutter-release button is pressed halfway (📖 13), the camera sets focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.

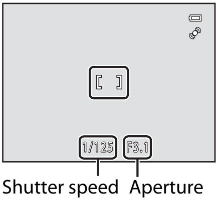
When a face is detected:

- The camera focuses on the face framed by a double border in the focus area. When the subject is in focus, the double border glows green.




When a face is not detected:

- The camera focuses on the subject in the center of the frame. When the subject is in focus, the focus area glows green.




The camera focuses in the center of the frame and the focus area is not displayed when digital zoom is in effect. Once focus has been acquired, the focus indicator (📖 8) glows green.

While the shutter-release button is pressed halfway, the focus area or focus indicator may blink red. This indicates that the camera is unable to focus. Modify the composition and press the shutter-release button halfway again.

## 2 Press the shutter-release button the rest of the way down.



The shutter is released and the image will be saved to the memory card or internal memory.

## During Saving

While images are being saved, the number of exposures remaining display will blink. **Do not open the battery-chamber/memory card slot cover.**

Removing the memory card or the battery during saving may result in loss of data or in damage to the saved data, camera or card.

## Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the focus area or the focus indicator glows green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and the subject is in deep shadow)
- No contrast between the subject and surroundings (e.g. when the subject is wearing a white shirt and is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.)
- Subject is moving rapidly

In these situations, try pressing the shutter-release button halfway again to refocus, several times if necessary. If the subject is still not in focus, select auto mode and use focus lock (□ 50) to take the picture by first focusing on an object that is the same distance from the camera as the desired subject.

## Note on Face Detection

See “Notes on Face Detection” (□ 34) for more information.

## AF-assist Illuminator and Flash

If the subject is dimly lit, the AF-assist illuminator (□ 115) may light when the shutter-release button is pressed halfway, and the flash (□ 28) may fire when the shutter-release button is pressed all the way down.

# Step 4 Viewing and Deleting Images

## Viewing Images (Playback Mode)

### Press the ▶ button.

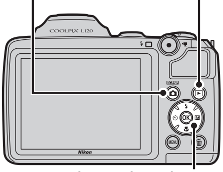
The last image captured is displayed in full-frame playback mode.

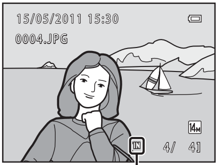
Press the multi selector ▲ or ◀ to display the previous image. Press ▼ or ▶ to display the next image.

Images may be displayed briefly at low resolution while being read from the memory card or internal memory.

Press the 📷 button or the ● (🎥 movie-record) button to switch to shooting mode. You can also press the shutter-release button.

When IN is displayed, images saved in the internal memory are displayed. When a memory card is inserted, IN is not displayed and images saved on the memory card are displayed.




### When the Monitor Has Turned Off to Save Power

When the power-on lamp is blinking, pressing the ▶ button will turn the monitor back on (□ 116).

### Playback Mode

See "More on Playback" (□ 61) and "Editing Image" (□ 75) for more information.

### Power On by Pressing the ▶ Button

When the camera is off, hold down the ▶ button to turn on the camera in playback mode. The lens will not extend.

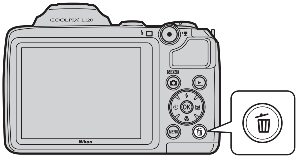
### Viewing Image

Images captured using face detection (□ 24) or pet detection (□ 43) will be automatically rotated when viewing them in full-frame.

# Deleting Unwanted Images

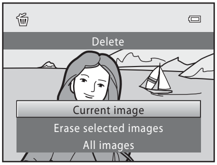
**1** Press the 🗑 button to delete the image currently displayed in the monitor.

Press the MENU button to exit without deleting the image.



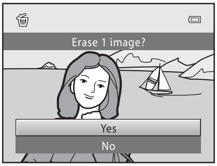
**2** Press the multi selector ▲ or ▼ to choose the desired deletion method and press the OK button.

**Current image**: The image currently displayed is deleted.
**Erase selected images**: Multiple images can be selected and deleted.
→ "Operating the Erase Selected Images Screen"
**All images**: All images are deleted.




**3** Press ▲ or ▼ to choose **Yes** and press the OK button.

Deleted images cannot be recovered.
To cancel, press ▲ or ▼ to select **No** and press the OK button.




## Operating the Erase Selected Images Screen

**1** Press the multi selector ◀ or ▶ to choose an image to be deleted, and then press ▲ to display ✓.

To undo the selection, press ▼ to remove ✓.
Rotate the zoom control (📖 4) to **T** (🔍) to switch back to full-frame playback or **W** (▦) to display thumbnails.




**2** Add ✓ to all desired images and then press the OK button to confirm the selection.

A confirmation dialog is displayed. Follow the instructions displayed in the monitor.

### Notes on Deletion

- Deleted images cannot be restored. Transfer important images to a computer before deleting them.
- Protected images cannot be deleted (📖 71).

### Deleting the Last Image Captured While in Shooting Mode

In shooting mode, press the 🗑 button to delete the last image captured.

# Using the Flash

In dark locations or when the subject is backlit, you can take pictures with flash by raising the flash.

- The flash has a range of about 0.5 to 6.0 m (1 ft. 8 in. to 19 ft.) at the maximum wide-angle position, and about 1.5 to 3.0 m (5 ft. to 9 ft. 10 in.) at the maximum telephoto zoom position.
- If the flash is raised when using easy auto mode (□ 20), the camera automatically sets a flash mode according to the determined scene mode. When the flash is lowered, the flash setting changes to off and ⊕ is displayed at the top of the monitor.

## Selecting a Flash Mode

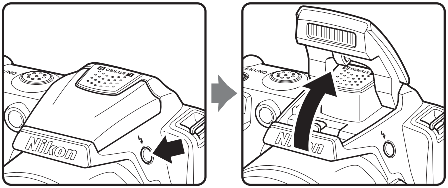
When using auto mode (□ 50), certain scene modes (□ 35), or smart portrait mode (□ 46), the following flash modes are available.

| | |
|---|---|
| ⚡AUTO | **Auto** |
| | Flash fires automatically when lighting is poor. |
| ⚡◎ | **Auto with red-eye reduction** |
| | Reduces "red-eye" in portraits (□ 30). |
| ⊕ | **Off** |
| | Flash will not fire even when lighting is poor. |
| ⚡ | **Fill flash** |
| | Flash fires when a picture is taken. Use to "fill-in" (illuminate) shadows and back-lit subjects. |
| ⚡▣ | **Slow sync** |
| | Auto flash mode is combined with slow shutter speed. Suited to evening and night portraits that include background scenery.<br>Flash illuminates main subject; Slow shutter speeds are used to capture background at night or under dim light. |

## 1 Press the ⚡ (flash pop-up) button.

The flash pops up.

When the flash is lowered, flash mode is fixed at ⊛ (off).



## 2 Press ⚡ (flash mode) on the multi selector.

The flash mode menu is displayed.

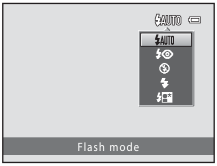


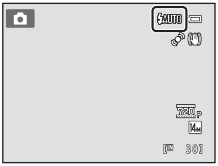

## 3 Press the multi selector ▲ or ▼ to select a mode, and press the OK button.

The icon for the selected flash mode is displayed.

When ⚡AUTO (auto) is applied, ⚡AUTO is only displayed for a few seconds, regardless of the **Photo info** settings (📖 110).

If a setting is not applied by pressing the OK button within a few seconds, the selection is cancelled.




### ☑ Lowering the Flash

Push the flash down gently to lower the flash until it clicks into place when not in use (📖 7).

## Shooting When Lighting Is Poor and the Flash Is Disabled (⊛)

- Use of a tripod is recommended to stabilize the camera during shooting and avoid the effects of camera shake. Set **Vibration reduction** (📖 113) to **Off** when using a tripod.
- ISO may be displayed in the monitor. When ISO is displayed, ISO sensitivity is automatically increased.

## Note on Using the Flash

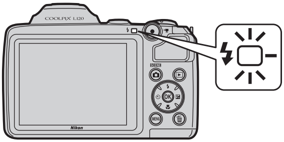
When using the flash, reflections from dust particles in the air may appear as bright spots in images. To reduce these reflections, set the flash to ⊛ (off) or lower the flash for shooting.

## The Flash Lamp

The flash lamp indicates flash status when the shutter-release button is pressed halfway.

- **On**: Flash fires when picture is taken.
- **Blinks**: Flash charging. Wait a few seconds and try again.
- **Off**: Flash does not fire when a picture is taken.

If the remaining battery level is low, the monitor will turn off until the flash has finished charging.




## The Flash Mode Setting

The default setting of flash mode depends on the shooting mode (📖 33).

- (easy auto) mode: ⚡AUTO Auto
- Scene mode: The default setting depends on the scene menu (📖 35).
- (smart portrait) mode: ⚡AUTO Auto
- (sport continuous) mode: ⊛ Off (locked)
- (auto) mode: ⚡AUTO Auto

Flash cannot be used simultaneously with certain features. ➝ Camera Settings that Cannot Be Set at the Same Time (📖 60)

When the shooting mode is (auto) mode (📖 50), the changed flash setting is saved even if the camera is turned off.

## Red-eye Reduction

This camera is equipped with an **advanced red-eye reduction** system.

Pre-flashes are fired several times at low intensity before the main flash to reduce the effects of red-eye.

If the camera detects "red-eye" when a picture is taken, Nikon's own In-Camera Red-Eye Fix processes the image before it is saved.

Note the following when using red-eye reduction:

- Because pre-flashes are fired before the picture is taken, there is a slight lag between when the shutter-release button is pressed and when the image is captured.
- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in some situations.
- In extremely rare instances, areas not subject to red-eye may be affected by red-eye reduction processing; in these cases, choose another flash mode and try again.

# Taking Pictures with the Self-timer

The self-timer is useful for self-portraits or reducing the effects of camera shake that occur when the shutter-release button is pressed. When using the self-timer, pictures are taken 10 seconds after the shutter-release button is pressed. When using the self-timer, use of a tripod is recommended. Set **Vibration reduction** (📖 113) in the setup menu (📖 103) to **Off** when using a tripod.



## 1 Press ⏲ (self-timer) on the multi selector.

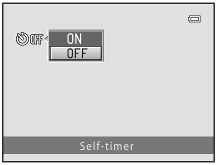
The self-timer menu is displayed.




## 2 Press the multi selector ▲ or ▼ to select **ON**, and press the OK button.

The self-timer icon (⏲ 10) is displayed.

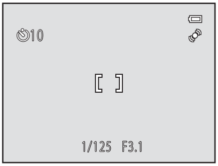
If a setting is not applied by pressing the OK button within a few seconds, the selection is cancelled.




## 3 Frame the picture and press the shutter-release button halfway.

Focus and exposure are set.





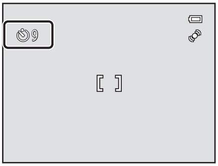

## 4 Press the shutter-release button the rest of the way down.

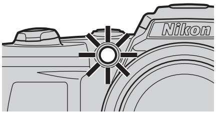
The self-timer starts and the number of seconds remaining until the shutter is released is displayed in the monitor. The self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp stops blinking and glows steadily.

When the shutter is released, the self-timer is set to **OFF**.

To stop the timer before a picture is taken, press the shutter-release button again.





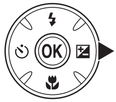



# Adjusting the Brightness: Exposure Compensation

By adjusting exposure compensation when taking pictures, overall image brightness can be adjusted to make images brighter or darker.

**1** Press ☒ (exposure compensation) on the multi selector.

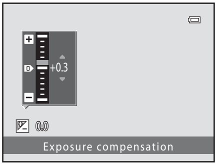
The exposure compensation guide is displayed.




**2** Press the multi selector ▲ or ▼ to select a compensation value.

To make the subject brighter, adjust the exposure compensation to the "+" side.

To make the subject darker, adjust the exposure compensation to the "-" side.



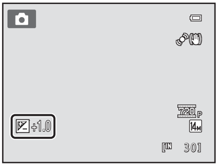

**3** Press the ⓀK button.

If a setting is not applied by pressing the ⓀK button within a few seconds, the selection is cancelled.

When set to any value other than **0.0**, the value is displayed with the ☒ icon in the monitor.

**4** Press the shutter-release button to shoot.

To turn off exposure compensation, repeat from step 1 and set the value to **0.0**, then press the ⓀK button.




### Exposure Compensation Value

The exposure compensation setting applied in 📷 (auto) mode (📖 50) is saved in the camera's memory even after the camera is turned off.

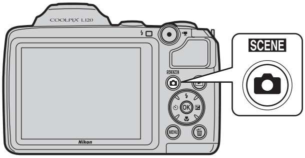
# Selecting Shooting Mode

The following shooting modes can be selected.

| | |
|---|---|
| Easy auto mode | 📖 20 |
| By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting. | |
| Scene | 📖 35 |
| Camera settings are automatically optimized for the selected scene type. | |
| Smart portrait | 📖 46 |
| The camera detects a smiling face to shoot the face automatically. | |
| Sport continuous | 📖 48 |
| Allows rapid, continuous shooting while you press and hold the shutter-release button fully. | |
| Auto mode | 📖 50 |
| You can change the flash mode, use macro mode (for close-ups), etc., and take pictures. You can also select to take bursts of pictures continuously. | |

**1** Press the 📷 button in shooting mode.

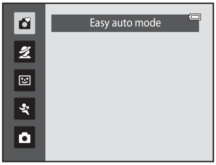
The shooting-mode selection menu is displayed.




**2** Press the multi selector ▲ or ▼ to select a shooting mode.

When a scene mode is selected (the second icon from the top), the scene type can be changed by pressing the ▶ button. Press ▲, ▼, ◀, or ▶ to select a scene.

To return to the current shooting mode without switching shooting modes, press the 📷 button or the shutter-release button.




**3** Press the OK button.

The camera enters the selected shooting mode.

# Easy Auto Mode

## Automatic Scene Selection

The camera automatically selects one of the following scenes when you point the camera at a subject.

- Auto mode (general use)
- Portrait (□ 36)
- Landscape (□ 36)
- Night portrait (□ 37)
- Night landscape (□ 39)
- Close-up (□ 39)
- Backlighting (□ 41)

## Notes on Face Detection

- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera. The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or other obstructions
  - When faces take up too much or too little of the frame
- When there are multiple people in the frame, the face on which the camera focuses depends on a variety of shooting conditions, such as whether or not the subject is facing the camera.
- In some cases, including those noted in "Autofocus" (□ 25), autofocus may not perform as expected, and the subject may not be in focus despite the fact that the double border glows green. When the camera is unable to focus, use another mode, such as (auto) mode, focus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (□ 50).

# Shooting Suited for the Scene (Scene Mode)

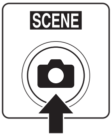
Camera settings are automatically optimized for the selected scene type. The following scene modes are available.

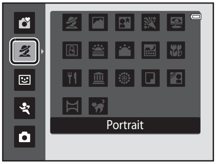
| | | | |
|---|---|---|---|
| Portrait | Landscape | Night portrait | Party/indoor |
| Beach | Snow | Sunset | Dusk/dawn |
| Night landscape | Close-up | Food | Museum |
| Fireworks show | Black and white copy | Backlighting | Panorama assist |
| Pet portrait | | | |

## Selecting a Scene Mode

**1** **Press the button in shooting mode and press the multi selector ▲ or ▼ to select scene mode.**

The icon of the last scene mode used is displayed. The default setting is (Portrait) (📖 36).

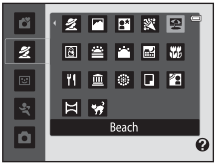



**2** **Press ▶, press the multi selector ▲, ▼, ◀, or ▶ to select a scene, and press the ⓚ button.**

The shooting mode screen for the selected scene is displayed.

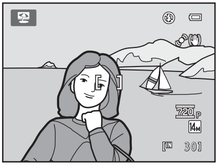
Scene Mode Types and Characteristics → (📖 36)




**3** **Frame the subject and take a picture.**

For scene modes that use the flash, be sure to press the ⚡ (flash pop-up) button to raise the flash before shooting.





### Image Mode

Press the MENU button in scene mode to change the combination of image quality (compression) and image size in **Image mode** (📖 53). If the image mode setting is changed, the new image mode setting is also applied to other shooting modes (except sport continuous).

### Viewing the Description of Each Scene (Help)

Choose a scene type from the scene selection screen (step 2) and rotate the zoom control (📖 4) to **T** (?) to view a description of that scene. To return to the original screen, rotate the zoom control to **T** (?) again.

# Choosing a Scene and Shooting (Scene Mode Types and Characteristics)

The following icons are used for descriptions in this section: ⚡: flash mode when the flash is raised (📖 28); ⏲: self-timer (📖 31); 🌷: macro mode (📖 51); ☒: exposure compensation (📖 32).

## Portrait



Use this mode for portraits.

- If the camera detects a face, it focuses on the face. See "Face Detection" (📖 24) for more information.
- If more than one face is detected, the camera focuses on the face closest to the camera.
- If no faces are detected, the camera focuses on the subject in the center of the frame.
- Digital zoom is not available.

| ⚡ | ⚡👁* | ⏲ | Off* | 🌷 | Off | ☒ | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified.

## Landscape



Use this mode for vivid landscapes and cityscapes.

- Camera focuses at infinity. The focus area or focus indicator (📖 8) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- The AF-assist illuminator (📖 115) does not light.

| ⚡ | ⊛ | ⏲ | Off* | 🌷 | Off | ☒ | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified.

[Tripod icon]: For those scene modes with [Tripod icon], use of a tripod is recommended. Set **Vibration reduction** (📖 113) to **Off** when using a tripod.

## Night portrait



Use this mode to achieve a natural balance between the main subject and background lighting in portraits taken at night.

- Raise the flash before shooting.
- If the camera detects a face, it focuses on the face. See "Face Detection" (24) for more information.
- If more than one face is detected, the camera focuses on the face closest to the camera.
- If no faces are detected, the camera focuses on the subject in the center of the frame.
- Digital zoom is not available.

| Flash | Self-timer | | Macro | | Exposure comp. | |
|---|---|---|---|---|---|---|
| Slow sync with red-eye[1] | | Off[2] | | Off | | 0.0[2] |

[1] The flash mode setting is fixed at fill flash with slow sync with red-eye reduction.
[2] Default setting can be modified.

## Party/indoor



Suitable for taking pictures in parties. Captures the effects of candlelight and other indoor background lighting.

- The camera focuses on the subject in the center of the frame.
- As pictures are easily affected by camera shake, hold the camera steadily. In a dark place, the use of a tripod is recommended. Set **Vibration reduction** (113) to **Off** when using a tripod.

| Flash | Self-timer | | Macro | | Exposure comp. | |
|---|---|---|---|---|---|---|
| Slow sync with red-eye[1] | | Off[2] | | Off | | 0.0[2] |

[1] Slow sync with red-eye reduction flash mode may be used. Default setting can be modified.
[2] Default setting can be modified.

## Beach



Captures the brightness of such subjects as beaches or sunlit expanses of water.

- The camera focuses on the subject in the center of the frame.

| Flash | Self-timer | | Macro | | Exposure comp. | |
|---|---|---|---|---|---|---|
| AUTO* | | Off* | | Off | | 0.0* |

* Default setting can be modified.

More on Shooting

## Snow

Captures the brightness of sunlit snow.
- The camera focuses on the subject in the center of the frame.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flash | AUTO* | Self-timer | Off* | Macro | Off | Exposure compensation | 0.0* |

* Default setting can be modified.

## Sunset (tripod)

Preserves the deep hues seen in sunsets and sunrises.
- The camera focuses on the subject in the center of the frame.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flash | Off* | Self-timer | Off* | Macro | Off | Exposure compensation | 0.0* |

* Default setting can be modified.

## Dusk/dawn (tripod)

Preserves the colors seen in the weak natural light before sunrise or after sunset.
- Camera focuses at infinity. The focus area or focus indicator (8) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- The AF-assist illuminator (115) does not light.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Flash | Off | Self-timer | Off* | Macro | Off | Exposure compensation | 0.0* |

* Default setting can be modified.

(tripod): For those scene modes with (tripod), use of a tripod is recommended. Set **Vibration reduction** (113) to **Off** when using a tripod.

## Night landscape




Use this mode when taking night landscape pictures. Slow shutter speeds are used to produce stunning night landscapes.

- Camera focuses at infinity. The focus area or focus indicator (8) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- The AF-assist illuminator (115) does not light.

| Flash | Off | Self-timer | Off* | Macro | Off | Exposure comp. | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified.

## Close-up



Photograph flowers, insects and other small objects at close range.

- Macro mode (51) will turn on and the zoom will automatically move to the closest possible shooting position.
- The closest distance at which the camera can focus varies depending on the zoom position. The camera can focus at distances as close as 1 cm (0.4 in.) from the lens when the macro icon and the zoom indicator glow green (zoom indicator is positioned near the wide-angle mark).
- The camera focuses on the subject in the center of the frame. Use focus lock to frame the picture on an object not in the center of the frame (50).
- The camera focuses continuously until the shutter-release button is pressed halfway to lock the focus.
- As pictures are easily affected by camera shake, check the **Vibration reduction** (113) setting and hold the camera steadily.

| Flash | AUTO* | Self-timer | Off* | Macro | On | Exposure comp. | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified. Note that the flash may be unable to light the entire subject at distances of less than 50 cm (1 ft. 8 in.).

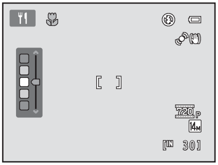
More on Shooting

### Food



Use this mode when taking pictures of food.

- Macro mode (□ 51) will turn on and the zoom will automatically move to the closest possible shooting position.
- The closest distance at which the camera can focus varies depending on the zoom position. The camera can focus at distances as close as 1 cm (0.4 in.) from the lens when [macro] and the zoom indicator glow green (zoom indicator is positioned near [wide]).
- You can adjust the hue using the slider displayed on the left side of the monitor. Press the multi selector ▲ to increase the amount of red, or ▼ to increase the amount of blue. Adjustments made to the hue setting are saved in the camera's memory even after the camera is turned off.




- The camera focuses on the subject in the center of the frame. Use focus lock to frame the picture on an object not in the center of the frame (□ 50).
- The camera focuses continuously until the shutter-release button is pressed halfway to lock the focus.
- As pictures are easily affected by camera shake, check the **Vibration reduction** (□ 113) setting and hold the camera steadily.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| [flash] | [flash off] | [self-timer] | Off* | [macro] | On | [exposure compensation] | 0.0* |

* Default setting can be modified.

### Museum



Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other settings in which you do not want to use the flash.

- The camera focuses on the subject in the center of the frame.
- BSS (best shot selector) can be enabled (□ 57).
- As pictures are easily affected by camera shake, check the **Vibration reduction** (□ 113) setting and hold the camera steadily.
- The AF-assist illuminator (□ 115) does not light.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| [flash] | [flash off] | [self-timer] | Off* | [macro] | Off* | [exposure compensation] | 0.0* |

* Default setting can be modified.

[tripod]: For those scene modes with [tripod], use of a tripod is recommended. Set **Vibration reduction** (□ 113) to **Off** when using a tripod.

## Fireworks show

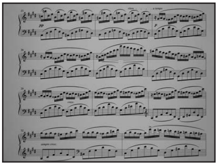


Slow shutter speeds are used to capture the expanding burst of light from a firework.

- Camera focuses at infinity. The focus indicator (📖 8) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator (📖 115) does not light.

| [flash] | [flash off] | [self-timer] | Off | [macro] | Off | [exposure compensation] | 0.0 |
|---|---|---|---|---|---|---|---|

## Black and white copy



Provides clear images of text or drawings on a white board or in print.

- The camera focuses on the subject in the center of the frame.
- Use macro mode (📖 51) to focus at short ranges.
- Colored text and drawings may not show up well.

| [flash] | [flash off]* | [self-timer] | Off* | [macro] | Off* | [exposure compensation] | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified.

## Backlighting



Use when light is coming from behind your subject, throwing features or details into shadow. The flash fires automatically to “fill in” (illuminate) shadows.

- Raise the flash before shooting.
- The camera focuses on the subject in the center of the frame.

| [flash] | [fill flash] | [self-timer] | Off* | [macro] | Off | [exposure compensation] | 0.0* |
|---|---|---|---|---|---|---|---|

* Default setting can be modified.

## Panorama assist



Use when taking a series of pictures that will later be joined to form a single panorama image using the supplied Panorama Maker 5 software. See Shooting for a Panorama (44) for details.

| Flash mode | Off* | Self-timer | Off* | Macro mode | Off* | Exposure compensation | 0.0* |
|---|---|---|---|---|---|---|---|

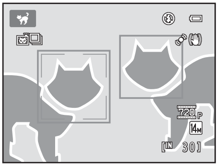
* Default setting can be modified.

## Pet portrait



Use this mode when taking pictures of dogs or cats. When the camera detects the face of a dog or a cat, the camera then focuses on the detected face. When the subject is in focus, the shutter is released automatically in the default setting (Pet portrait auto release).

- Select **Single** or **Continuous** on the screen that is displayed when **Pet portrait** scene mode is selected.
  - **Single**: One picture is taken each time the shutter-release button is pressed.
  - **Continuous**: When the detected face is in focus, three images are continuously captured (Frame rate: approx. 0.7 fps when image mode is set to **4320×3240**). When **Continuous** is selected, appears on the monitor.
- The face detected by the camera is framed by a double border (focus area), and the double border turns green when focus is acquired. The faces of up to five pets can be detected simultaneously. When the camera detects more than one face, the face displayed largest in the monitor is framed by a double border (AF area), and the faces outside the focus area are framed by single borders.



- Even if the camera does not detect any face of a pet, the shutter can be released when the shutter-release button is pressed.
  - If the camera does not detect any face of a pet, the camera focuses on the subject in the center of the frame.
  - While the shutter-release button is held all the way down when **Continuous** is selected, up to 19 images can be captured at a rate of about 0.7 fps (when image mode is set to **4320×3240**). Shooting ends when the shutter-release button is released.
- The auto shutter-release setting can be changed by pressing the multi selector ◀ ().
  - **Pet portrait auto release** (default setting): When the detected face is in focus, the camera automatically releases the shutter. When **Pet portrait auto release** is selected, appears on the monitor.
  - **Off**: The shutter is released only using the shutter-release button.
- Digital zoom is not available.
- AF-assist illuminator (115) does not light. The button sound and shutter sound (115) will not go off.
- In some shooting conditions, such as the distance between the camera and the pets, the speed of the pets' movement, the direction in which the faces are turned or the brightness of the faces, the camera may be unable to detect the dogs or cats, or may detect subjects other than dogs or cats.
- **Pet portrait auto release** is automatically set to **Off** in the following situations.
  - When five series of images are captured using auto release
  - When the camera is turned back on after entering standby mode (15)
  - When there is no remaining space in the internal memory or on the memory card

  To continue using **Pet portrait auto release** to take more pictures, press the multi selector ◀ () and change the setting again.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | [1] | | Off[2] | | 0.0[2] |

[1] This can be set to Off. Self-timer cannot be used.
[2] Default setting can be modified.

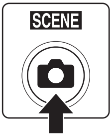
More on Shooting

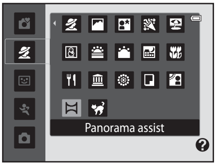
## Shooting for a Panorama

The camera focuses on the subject in the center of the frame. Use a tripod for best results. Set **Vibration reduction** (□ 113) to **Off** when using a tripod.

**1** Press the ◘ button in shooting mode and use the multi selector to select ⌘ **Panorama assist** (□ 35).

The panorama direction icon (▷) is displayed to show the direction in which images are joined.

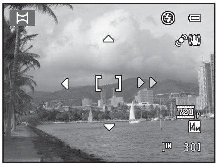



**2** Use the multi selector to choose the direction and press the OK button.

Select how images are joined together in the completed panorama; right (▷), left (◁), up (△) or down (▽).

The yellow panorama direction icon (▷▷) is displayed to the direction pressed and the direction is fixed when the OK button is pressed. The white fixed direction ▷ is displayed.



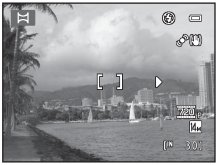
Apply flash mode (□ 28), self-timer (□ 31), macro mode (□ 51) and exposure compensation (□ 32) settings with this step, if necessary.

Press the OK button to reselect the direction.

**3** Frame the first portion of the panorama scene and take the first picture.

One third of the image will be displayed as translucent.



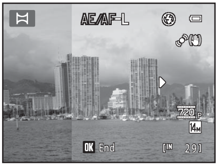


**4** Take the next picture.

Frame the next image so that one third of the frame overlaps the first image, and press the shutter-release button.

Repeat until you have taken the necessary number of images to complete the panorama.





## 5 Press the OK button when shooting is completed.

The camera returns to step 2.



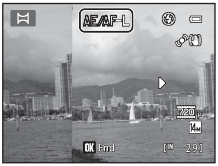

### Panorama Assist

- Set flash mode, self-timer, macro mode and exposure compensation before taking the first picture. They cannot be changed after the first picture is taken. Images cannot be deleted, nor can zoom or Image mode setting (53) be adjusted after the first picture is taken.
- The panorama series is terminated if the camera enters standby mode with the auto off function (116) during shooting. Setting the time allowed to elapse before the auto off function is enabled to a longer setting is recommended.

### Note on AE/AF-L

All images captured in a panorama series have the same white balance, exposure, and focus settings.

When the first picture is taken, AE/AF-L is displayed to indicate that exposure, white balance, and focus are locked.




### Panorama Maker 5

Install Panorama Maker 5 from the supplied ViewNX 2 CD.

Transfer images to a computer (93) and use Panorama Maker 5 (96) to join them in a single panorama.

### More Information

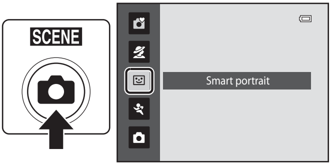
See “File and Folder Names” (131) for more information.

# Capturing Smiling Faces Automatically (Smart Portrait Mode)

The camera detects a smiling face to shoot the face automatically.

## 1 Press the 📷 button in shooting mode and press the multi selector ▲ or ▼ to select 😊, and press the OK button.

The camera enters smart portrait mode.

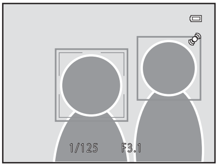



## 2 Frame the picture.

Raise the flash when using it (📖 7).

Point the camera at the subject.

If the camera detects a person's face, the face is framed by a double yellow border in the focus area, and when the face comes into focus, the double border turns green for a moment and the focus is locked.




Up to three faces can be detected. When the camera detects more than one face, the double border (focus area) is displayed around the face closest to the center of the frame, and single borders around the others.

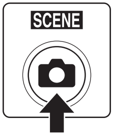
## 3 The shutter is automatically released.

If the camera detects the smiling face of the person framed by a double border, the shutter is automatically released.

Each time the shutter is released, the camera repeats automatic shooting by face detection and smile detection.

## 4 Exit this shooting mode.

Exit automatic shooting with the smile detection feature by turning the power off or by pressing the 📷 button to change to another shooting mode.



## Notes on Smart Portrait Mode

- Digital zoom is not available.
- Under some shooting conditions, the camera may be unable to detect faces or detect smiles.
- Note on Face Detection ➝ 📖 34

## Auto Off (Standby Mode) When Using Smart Portrait Mode

When using smart portrait mode, Auto off (📖 116) will turn the camera off if no operations are performed in the following situations:

- The camera does not detect any faces.
- The camera detects a face but does not detect a smiling face.

## Self-Timer Lamp Blinking

The self-timer lamp blinks when the camera detects a face, and flickers immediately after the shutter is released.

## Releasing the Shutter Manually

The shutter can also be released by pressing the shutter-release button. If no faces are detected, the camera focuses on the subject at the center of the frame.

## Functions Available in Smart Portrait Mode

- Flash mode (📖 28) changes automatically to ⚡AUTO (auto flash) when the flash is raised. (This can be changed.)
- The self-timer and macro mode are not available.
- The exposure compensation (📖 32) is available.
- Press the MENU button in smart portrait mode to change the combination of image quality (compression) and image size in image mode (📖 53). If the image mode setting is changed, the new image mode setting is also applied to other shooting modes (except sport continuous).

## More Information

See "Autofocus" (📖 25) for more information.

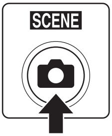
# Shooting Continuously at High Speed (Sport Continuous)

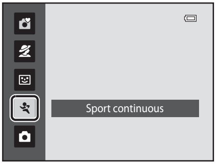
Sport continuous mode allows rapid, continuous shooting while you press and hold the shutter-release button fully. With continuous shooting, instantaneous movements in moving subjects can be captured.

- With the default setting of **Continuous H**, the camera shoots up to 20 images at a rate of up to about 15.3 frames per second (fps).
- ISO sensitivity is set high.
- Image mode can be set to 3M **2048×1536** or smaller.
- The focus, exposure, and white balance settings are fixed at the values for the first image in each series.

## 1 Press the 📷 button in shooting mode and press the multi selector ▲ or ▼ to select 🏃, and press the ⓚ button.

The camera enters sport continuous mode.

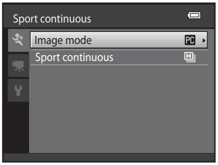



## 2 Press the MENU button, then confirm or set the items in the sport continuous menu.

Sport continuous menu → 📖 49

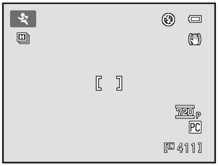
Press the MENU button after setting the items to return to shooting mode.




## 3 Frame the subject and shoot.

The camera focuses on the subject in the center of the frame. Pressing the shutter-release button halfway sets the focus and exposure.

Continuous shooting continues as long while the shutter-release button is held all the way down, and stops when the number of shot frames reaches the maximum available number (📖 49).




### Functions Available with Sport Continuous

- The exposure compensation (📖 32) is available.
- The flash is disabled.
- The self-timer and macro mode are not available.
- AF-assist illuminator (📖 115) does not light.
- In sport continuous mode, press the MENU button to adjust **Image mode** or **Sport continuous** (type of sport continuous mode) setting (📖 49).

### Notes on Sport Continuous Shooting

- It may take some time to save the images after shooting. The time it takes to save the images depends on the number of images captured, the image mode, the memory card's write speed, etc.
- Because the ISO sensitivity is set to 400 or higher, images may appear rough as a result. Proper exposure may not be obtained in clear weather (images may be overexposed).
- Smear (□ 128) visible in the monitor when shooting with sport continuous will be visible in the saved image data. To reduce smear effects, avoid bright objects such as the sun, reflections of the sun, and electric lights when shooting.
- Variances in brightness or hue may occur in images captured under lighting that flickers at high speeds, such as fluorescent and mercury-vapor.
- The shutter speed is set automatically within the range of 1/4000 to 1/60 s.
- The speed of continuous shooting may be slower depending on shutter speed settings and the write speed of the memory card.
- When using sport continuous mode, the camera focuses continuously until the shutter-release button is pressed halfway to lock the focus. A sound will be heard while the camera focuses.

### More Information

See "Autofocus" (□ 25) for more information.

## Changing the Sport Continuous Shooting Mode Settings

After displaying the (sport continuous) mode shooting screen (□ 48), press the MENU button (□ 5) to set the following options in the sport continuous menu.

- Use the multi selector to choose and apply settings (□ 11).
- To exit the shooting menu, press the MENU button.

| Image mode |
|---|
| **Image mode** (□ 53) can be set.<br>• In sport continuous mode, the following image mode settings are available: **2048×1536**, **1024×768** (default setting), **640×480**, **1920×1080**<br>• The image mode setting in the sport continuous menu is saved separately from the image mode setting in other shooting modes and is not applied to the other modes. |

| Sport continuous |
|---|
| Select the sport continuous mode type to determine the maximum continuous shooting speed and maximum number of frames to be captured.<br>• **Continuous H** (default setting): Approx. 15.3 frames per second (20 frames max.)<br>• **Continuous M**: Approx. 7.9 frames per second (20 frames max.)<br>• **Continuous L**: Approx. 4.5 frames per second (20 frames max.) |

More on Shooting

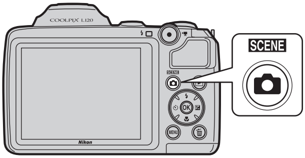
# Auto Mode

In A (auto) mode, macro mode (A 51) and exposure compensation (A 32) can be applied and pictures can be taken using flash mode (A 28) and self-timer (A 31).

Pressing the MENU button in A (auto) mode allows you to specify settings for all shooting menu items (A 52) depending upon the shooting situations.

**1** Press the A button.

The shooting-mode selection menu is displayed.

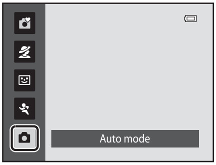



**2** Press the multi selector ▲ or ▼ to choose A and press the k button.

The camera enters A (auto) mode.

Set the flash mode (A 28), self-timer (A 31), exposure compensation (A 32), and macro mode (A 51) to match the shooting conditions.

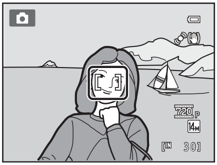
Press the MENU button to display the shooting menu, and set the items in the shooting menu to match the shooting conditions (A 52).




**3** Frame the subject and take a picture.

The camera focuses on the subject in the center of the frame.

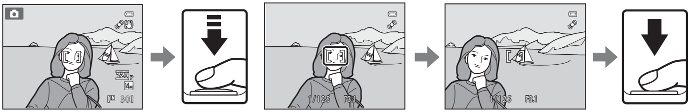




### Focus Lock

When the camera focuses on an object in the center of the frame, you can use focus lock to focus on an off-center subject.

- Be sure that the distance between the camera and the subject does not change while focus is locked.
- When the shutter-release button is pressed halfway, exposure is locked.



Position the subject in the center of the frame. → Press the shutter-release button halfway. → Confirm that the focus area is green. → Continue holding down the shutter-release button halfway and recompose the picture. → Press the shutter-release button the rest of the way down.

# Macro Mode

Macro mode is used for taking pictures of objects as close as 1 cm (0.4 in.). Note that the flash may be unable to light the entire subject at distances of less than 50 cm (1 ft. 8 in.).

When using 📷 (auto) mode, follow the procedure below. Macro mode can also be used with some scene modes (📖 39, 40, 41).

## 1 Press 🌷 (macro mode) on the multi selector.

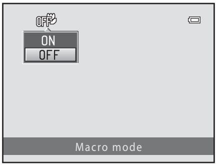
The macro menu is displayed.



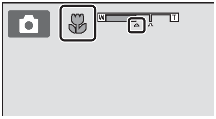

## 2 Press the multi selector ▲ or ▼ to select **ON**, and press the ® button.

The macro mode icon (🌷) is displayed.

If a setting is not applied by pressing the ® button within a few seconds, the selection is cancelled.




## 3 Turn the zoom control or the side zoom control until the zoom position reaches the position where 🌷 and the zoom indicator glow green.




The camera can focus at distances as close as 1 cm (0.4 in.) from the lens when 🌷 and the zoom indicator glow green (zoom indicator is positioned near △).

### Autofocus

When using macro mode, the camera focuses continuously until the shutter-release button is pressed halfway to lock the focus. A sound will be heard while the camera focuses.

### The Macro Mode Setting

- 📷 (easy auto) mode: Changes to macro mode when the camera selects 🌷. The macro mode button on the multi selector cannot be used.
- Scene mode: Varies with the selected scene mode (📖 35). Macro mode is turned on when 🌷 **Close-up** or 🍴 **Food** are selected in scene mode.
- 😊 (smart portrait) mode, 🏃 (sport continuous) mode: Macro mode cannot be used.
- The macro mode setting applied in 📷 (auto) mode is saved in the camera's memory even after the camera is turned off.

# Changing (Auto) Mode Settings (Shooting Menu)

While shooting in (auto) mode (50), the shooting menu contains the following options.

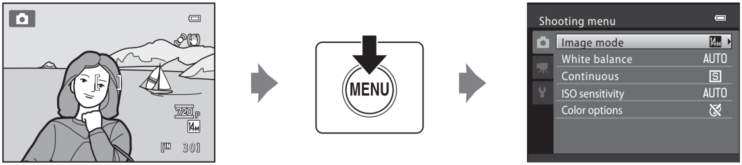
| | |
|---|---|
| **Image mode** | 53 |
| Choose image size and quality (compression).<br>This setting can be changed when using any shooting mode. | |
| **White balance** | 55 |
| Match white balance to the light source. | |
| **Continuous** | 57 |
| Change settings to Continuous or BSS (best shot selector). | |
| **ISO sensitivity** | 58 |
| Control the camera's sensitivity to light. | |
| **Color options** | 59 |
| Make colors more vivid or save images in monochrome. | |



## Displaying the Shooting Menu

Set the camera to (auto) mode (50).

Press the MENU button to display the shooting menu.




- Use the multi selector to choose and apply settings (11).
- To exit the shooting menu, press the MENU button.

### Camera Settings That Cannot Be Applied at the Same Time

Some functions cannot be enabled in conjunction with others (60).

# Image Mode (Image Quality/Image Size)

(auto) ➔ MENU (Shooting menu) ➔ Image mode

Choose image size and quality (compression). The size of the files, and with it the number of images that can be saved, depends on the size and quality (compression) of the images. Before shooting, choose an image mode according to how you plan to use the image.

| Setting | Size (pixels) | Description |
|---|---|---|
| 4320×3240★ | 4320 × 3240 | Highest quality, suitable for enlargements or high-quality prints. The compression ratio is approximately 1:4. |
| 4320×3240 (default setting) | 4320 × 3240 | Best choice in most situations. The compression ratio is approximately 1:8. |
| 3264×2448 | 3264 × 2448 | |
| 2592×1944 | 2592 × 1944 | |
| 2048×1536 | 2048 × 1536 | Smaller size allows more images to be saved. The compression ratio is approximately 1:8. |
| 1024×768 | 1024 × 768 | Suited to display on a computer monitor. The compression ratio is approximately 1:8. |
| 640×480 | 640 × 480 | Suited to distribution by e-mail or full-screen display on a television with a 4:3 aspect ratio. The compression ratio is approximately 1:8. |
| 4224×2376 | 4224 × 2376 | Images with an aspect ratio of 16:9 can be taken. The compression ratio is approximately 1:8. |

The icon for the current setting is displayed in the monitor in shooting and playback modes (8, 9).

## Notes on Image Mode

- When using shooting modes other than (auto) mode, this setting can be changed by pressing the MENU button. The setting is also applied to other shooting modes (except for sport continuous mode).
- This feature cannot be used simultaneously with certain features. → "Camera Settings that Cannot Be Set at the Same Time" (60)

## Image Mode for Sport Continuous Mode

- In sport continuous mode (48), the following image mode settings are available: **2048×1536**, **1024×768**, **640×480**, **1920×1080** (image size 1920 × 1080, compression ratio 1:8)
- The image mode setting in the sport continuous menu (48) is saved separately from the image mode setting in other shooting modes and is not applied to the other modes.

## Number of Exposures Remaining

The following table lists the approximate number of images that can be saved in internal memory and on a 4 GB memory card. Note that the number of images that can be saved will differ depending on the composition of the image (due to JPEG compression). In addition, this number may differ depending on the make of memory card, even if the capacity for the memory card is the same.

| Image mode | Internal memory (Approx. 102 MB) | Memory card [1] (4 GB) | Print size[2] (cm/in.) |
|---|---|---|---|
| 4320×3240★ | 15 | 550 | 36 × 27/14 × 10.5 |
| 4320×3240 | 30 | 1100 | 36 × 27/14 × 10.5 |
| 3264×2448 | 52 | 1910 | 28 × 21/11 × 8 |
| 2592×1944 | 81 | 2940 | 22 × 16/8.5 × 6.5 |
| 2048×1536 | 126 | 4640 | 17 × 13/7 × 5 |
| 1024×768 | 411 | 15000 | 9 × 7/3.5 × 2.5 |
| 640×480 | 731 | 24100 | 5 × 4/2 × 1.5 |
| 4224×2376 | 41 | 1520 | 35 × 20/14 × 8 |
| 1920×1080[3] | 182 | 6700 | 16 × 9/6.5 × 3.5 |

1 If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999."

2 Print sizes are calculated by dividing the number of pixels by printer resolution (dpi) and multiplying by 2.54 cm (1 in.). However, at the same image size, images printed at higher resolutions will print smaller than the size indicated, and those printed at lower resolutions will print larger than the size indicated.

3 Sport continuous mode only

More on Shooting

# White Balance (Adjusting Hue)

| |
|---|
| A (auto) ➔ MENU (Shooting menu) ➔ White balance |

The color of light reflected from an object varies with the color of the light source. The human brain is able to adapt to changes in the color of the light source, with the result that white objects appear white whether seen in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This is known as “white balance”.

Although the default setting, **Auto** can be used under most types of lighting, you can apply the white balance setting suited to a particular light source to achieve more accurate results.

| | |
|---|---|
| AUTO | Auto (default setting) |
| | White balance automatically adjusted to suit lighting conditions. Best choice in most situations. |
| PRE | Preset manual |
| | Useful when shooting under unusual lighting. See “Preset Manual” for more information (56). |
| ☀ | Daylight |
| | White balance adjusted for direct sunlight. |
| ✺ | Incandescent |
| | Use under incandescent lighting. |
| ✺ | Fluorescent |
| | Use under most types of fluorescent lighting. |
| ☁ | Cloudy |
| | Use when taking pictures under overcast skies. |
| ⚡ | Flash |
| | Use with flash mode. |

The icon for the current setting is displayed in the monitor (8). However, when **Auto** is selected, no icon is displayed.

### Notes on White Balance

- This feature cannot be used simultaneously with certain features. → “Camera Settings that Cannot Be Set at the Same Time” (60)
- At white-balance settings other than **Auto** or **Flash**, turn the flash off (⊕) (28).

More on Shooting

## Preset Manual

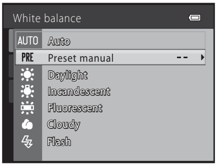
Preset manual is used with mixed lighting or to compensate for light sources with a strong color cast when the desired effect has not been achieved with white balance settings like **Auto** and **Incandescent** (for example, to make images shot under a lamp with a red shade look as though they had been shot under white light).

Use the procedure below to measure the white balance value under the lighting used during shooting.

**1** Place a white or gray reference object under the lighting that is used during shooting.

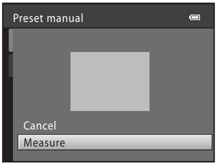
**2** Display the shooting menu (📖 52), use the multi selector to select PRE **Preset manual** in the **White balance** menu, and press the OK button.

The camera zooms in to the position for measuring white balance.

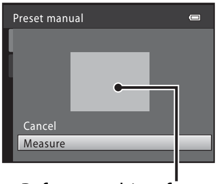



**3** Select **Measure**.

To apply the most recently measured white balance value, choose **Cancel** and press the OK button. The white balance setting will not be measured again and the most recently measured value will be set.




**4** Frame the reference object in the measuring window.




Reference object frame

**5** Press the OK button to measure a value for preset manual.

The shutter is released (no image is captured) and the new white-balance value is set.

### Note on Preset Manual

The camera cannot measure a white balance value for when the flash fires. When shooting with the flash, set **White balance** to **Auto** or **Flash**.

# Continuous

(auto) ➔ MENU (Shooting menu) ➔ Continuous

Change settings to Continuous or BSS (best shot selector).

**Single (default setting)**

One image is captured each time shutter-release button is pressed.

**Continuous**

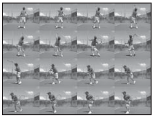
While the shutter-release button is held all the way down, up to 19 images are captured at a rate of about 0.7 frames per second (fps) when image mode is set to **4320×3240**.

**BSS (Best Shot Selector)**

The "best shot selector" is recommended when shooting with the flash off or the camera zoomed in, or in other situations in which inadvertent motion can result in blurred images.
The camera captures a series of up to ten images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved.

**Multi-shot 16**

Each time the shutter-release button is pressed all the way down, the camera shoots 16 images at a rate of about 22 frames per second (fps), then arranges them in a single image. Images are captured with the image mode locked at (image size: 2560 × 1920 pixels).



- Digital zoom cannot be used.

The icon for the current setting is displayed in the monitor during shooting (📖 8). When set to **Single**, no icon is displayed.

## Notes on Continuous Shooting

- When **Continuous**, **BSS**, or **Multi-shot 16** is selected, flash is disabled. Focus, exposure, and white balance are fixed at the values determined with the first image in each series.
- The frame rate with continuous shooting may vary, depending upon the current image mode setting, the memory card used, and the shooting environment.
- This feature cannot be used simultaneously with certain features. → "Camera Settings that Cannot Be Set at the Same Time" (📖 60)

## Note on BSS

**BSS** is best suited to shooting subjects that are not moving. When shooting moving subjects or when the composition of the picture changes while shooting, the desired results may not be achieved.

### ☑ Note on Multi-shot 16

Smear (□ 128) visible in the monitor when shooting with Multi-shot 16 will be visible in the saved image data. To reduce smear effects, avoid bright objects such as the sun, reflections of the sun, and electric lights when shooting.

## ISO Sensitivity

| |
|---|
| 📷 (auto) ➔ MENU (Shooting menu) ➔ ISO sensitivity |

When ISO sensitivity is increased, less light is needed when taking pictures.

Higher ISO sensitivity allows darker subjects to be captured. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

- Although higher ISO sensitivity is effective when shooting darker subjects, shooting without the flash, shooting with the camera zoomed in, etc., images may contain noise.

| Auto (default setting) |
|---|
| Sensitivity is ISO 80 under normal conditions; when lighting is poor and the flash is off, the camera compensates by raising sensitivity to a maximum of ISO 800. |
| **80, 100, 200, 400, 800, 1600, 3200, 6400** |
| Sensitivity will be locked at the specified value.<br>• When ISO sensitivity is locked, **Motion detection** (□ 114) does not function. |

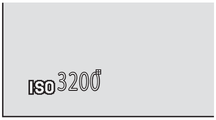
The icon for the current setting is displayed in the monitor (□ 8). When **Auto** is selected, the ISO icon is not displayed at ISO 80, but is displayed if the ISO sensitivity automatically increases to more than 80 (□ 30).

### ☑ Note on ISO Sensitivity

This feature cannot be used simultaneously with certain features. → "Camera Settings that Cannot Be Set at the Same Time" (□ 60)

### ☑ ISO 3200 and ISO 6400

When **ISO sensitivity** is set to **3200** or **6400**, the available **Image mode** settings are limited to 3M **2048×1536**, PC **1024×768**, and VGA **640×480**. The image mode indicator displayed while shooting lights in red, and ⊞ is displayed next to the ISO sensitivity indicator in the bottom left of the monitor.



# Color Options

(auto) ➔ MENU (Shooting menu) ➔ Color options

Make colors more vivid or save images in monochrome.

| | |
|---|---|
| | Standard color (default setting) |
| | Use for images exhibiting natural color. |
| | Vivid color |
| | Use to achieve a vivid, “photoprint” effect. |
| | Black-and-white |
| | Save images in black-and-white. |
| | Sepia |
| | Save images in sepia tones. |
| | Cyanotype |
| | Save images in cyan-blue monochrome. |

The icon for the current setting is displayed in the monitor during shooting (8). However, when **Standard color** is selected, no icon is displayed. The effects of the selected option can be previewed in the monitor.

### Note on Color Options

This feature cannot be used simultaneously with certain features. → “Camera Settings that Cannot Be Set at the Same Time” (60)

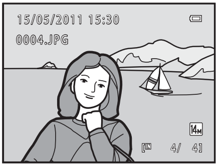
## Camera Settings that Cannot Be Set at the Same Time

Certain settings in the shooting menu cannot be used with other functions.

| Restricted Functions | Setting | Description |
|---|---|---|
| Flash mode | Continuous (🕮 57) | When using **Continuous**, **BSS**, or **Multi-shot 16**, the flash cannot be used. |
| Digital zoom | Continuous (🕮 57) | Digital zoom cannot be used when shooting with **Multi-shot 16**. |
| Image mode | Continuous (🕮 57) | When using **Multi-shot 16**, **Image mode** is fixed at 5M (image size: 2560 × 1920 pixels). |
| | ISO sensitivity (🕮 58) | When the **ISO sensitivity** is set to **3200** or **6400**, the available **Image mode** are restricted to 3M **2048×1536**, PC **1024×768**, and VGA **640×480**.<br>For all other image mode settings, if **ISO sensitivity** is set to **3200** or **6400**, the image mode setting changes to 3M **2048×1536**. |
| White balance | Color options (🕮 59) | When using **Black-and-white**, **Sepia**, or **Cyanotype**, the **White balance** setting is fixed at **Auto**. |
| Continuous | Self-timer (🕮 31) | When using the self-timer, the setting is fixed at **Single**. |
| ISO sensitivity | Continuous (🕮 57) | When using **Multi-shot 16**, **ISO sensitivity** is set automatically according to the brightness. |
| Print date | Continuous (🕮 57) | The shooting date cannot be imprinted on images captured when using **Continuous** or **BSS**. |
| Motion detection | Continuous (🕮 57) | **Motion detection** does not function when shooting with **Multi-shot 16**. |
| | ISO sensitivity (🕮 58) | **Motion detection** does not function when ISO sensitivity is set to any setting other than **Auto**. |

# Full-frame Operation

Press the ▶ button during shooting to switch to playback mode and view images (📖 26).




The following operations can be performed while viewing images in full-frame.

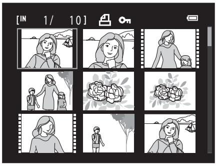
| Function | Control | Description | 📖 |
|---|---|---|---|
| Choose images |  | Press ▲, ▼, ◀, or ▶ to view the previous or next image. Hold down the multi selector ▲, ▼, ◀, or ▶ to quickly scan through images. | 11 |
| Switch to thumbnail display/calendar | **W** (⊞) | Display 4, 9, or 16 image thumbnails. While displaying 16 image thumbnails, rotate the zoom control to **W** (⊞) to display the calendar. | 62, 63 |
| Playback zoom | **T** (🔍) | The image can be enlarged up to about 10×. Press the ⓚ button to return to full-frame playback. | 64 |
| Movie Playback | ⓚ | Play the selected movie. | 87 |
| Deleting Images | 🗑 | Select a deletion method and delete images. | 27 |
| Menu Display | MENU | Display the playback menu. | 66 |
| Switch to shooting mode | 📷<br><br>● | Press the 📷 button or shutter-release button. The ● (🎥 movie-record) button can also be used to switch to shooting mode. | 10 |

## ✎ Changing the Orientation (Vertical/Horizontal) of Images

Image orientation can be changed after taking a picture using **Rotate image** (📖 73) in the playback menu (📖 66).

# Viewing Multiple Images: Thumbnail Playback

Rotate the zoom control to **W** (⊞) in full-frame playback mode (📖 26) to display images in "contact sheets" of thumbnail images.

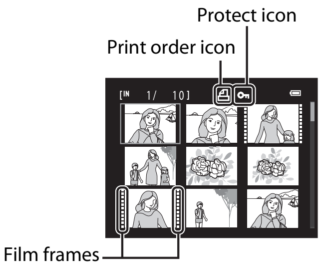



The following operations can be performed while thumbnails are displayed.

| Function | Control | Description | 📖 |
|---|---|---|---|
| Choose images |  | Press the multi selector ▲, ▼, ◀, or ▶. | 11 |
| Increase the number of images displayed/ apply the calendar display | **W** (⊞) | Rotate the zoom control to **W** (⊞) to increase the number of image thumbnails displayed: 4 → 9 → 16. Rotate the zoom control to **W** (⊞) in the 16-image thumbnail display to apply the calendar display (📖 63), and images can be found by the date on which they were captured. Rotate the zoom control to **T** (🔍) to return to thumbnail display mode. | – |
| Reduce the number of frames displayed | **T** (🔍) | Rotate the zoom control to **T** (🔍) to reduce the number of images displayed from 16 → 9 → 4. While 4 frames are displayed, rotate the zoom control to **T** (🔍) again to return to full-frame display mode. | – |
| Deleting Images | 🗑 | Select a deletion method and delete images. | 27 |
| Switch to full-frame playback | Ⓚ | Press the Ⓚ button. | 26 |
| Switch to shooting mode | 📷 / shutter-release button / ● | Press the 📷 button or shutter-release button. The ● (🎥 movie-record) button can also be used to switch to shooting mode. | 10 |

### Thumbnail Playback Mode Display

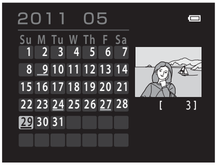
While images selected for **Print order** (📖 67) and **Protect** (📖 71) are chosen, the icons shown on the right are displayed with them. Movies are displayed as film frames.




## Calendar Display

When displaying 16 thumbnail frames in playback mode (📖 62), switch to calendar display by rotating the zoom control to **W** (▦).

You can select images to view based on the day they were taken. Days containing images have a yellow line under them.




The following operations are available in calendar display.

| Function | Control | Description | 📖 |
|---|---|---|---|
| Choose date |  | Press the multi selector ▲, ▼, ◀, or ▶. | 11 |
| Switch to full-frame playback | ⊛ | The first image for that date will be displayed full-frame. | 26 |
| Switch to thumbnail display | **T** (🔍) | Rotate the zoom control to **T** (🔍). | – |

### Calendar Display

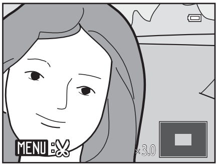
- Images captured when the camera's date is not set are treated as images captured on January 1, 2011.
- The 🗑 button and the MENU button are not available during calendar display.

More on Playback

# Taking a Closer Look: Playback Zoom

Rotating the zoom control to **T** (Q) during full-frame playback mode (□ 26) zooms the current image, with the center of the image displayed in the monitor.

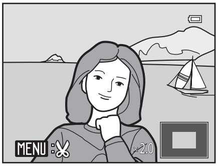
- The guide displayed in the right bottom in the monitor will show which part of the image is currently displayed.




The following operations can be performed while images are zoomed in.

| Function | Control | Description | □ |
|---|---|---|---|
| Zoom in | **T** (Q) | Zoom increases each time the zoom control is rotated to **T** (Q), up to about 10×. | – |
| Zoom out | **W** (▦) | Zoom decreases each time the zoom control is rotated to **W** (▦). When the magnification ratio reaches 1×, the display returns to full-frame playback mode. | – |
| View other areas of image |  | Press the multi selector ▲, ▼, ◀, or ▶ to scroll to areas of the image not visible in the monitor. | 11 |
| Switch to full-frame playback | OK | Press the OK button. | 26 |
| Crop image | MENU | Press the MENU button to crop current image to contain only the portion visible in the monitor. | 78 |
| Deleting Images | 🗑 | Select a deletion method and delete images. | 27 |
| Switch to shooting mode | 📷<br><br>● | Press the 📷 button or shutter-release button. The ● (🎥 movie-record) button can also be used to switch to shooting mode. | 10 |

## Images Captured with Face Detection or Pet Detection




When zooming in on an image captured using face detection (□ 24) or pet detection (□ 43) by rotating the zoom control to **T** (Q) in full-frame playback mode, the image will be enlarged with the face detected during shooting at the center of the monitor.

- If several faces are detected, the image will be enlarged using the face that was focused on during shooting time as the centralized point, and pressing the multi selector ▲, ▼, ◀ or ▶ will enable you to switch between the people's faces.
- Rotate the zoom control toward **T** (Q) again or toward **W** (▦) to zoom in or out as normal.

# Playback Menu

The following options are available in playback mode.

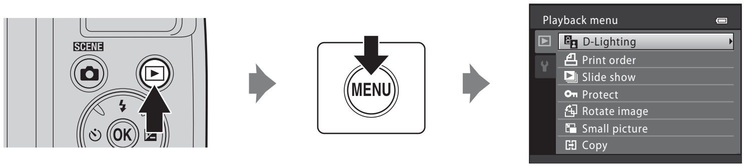
| | | |
|---|---|---|
| | D-Lighting | □ 76 |
| | Enhances brightness and contrast in dark portions of images. | |
| | Print order | □ 67 |
| | Select images to print and the number of copies for each. | |
| | Slide show | □ 70 |
| | View images saved in the internal memory or on a memory card in an automatic slide show. | |
| | Protect | □ 71 |
| | Protect selected images from accidental deletion. | |
| | Rotate image | □ 73 |
| | Change the orientation of an image. | |
| | Small picture | □ 77 |
| | Create a small copy of the current image. | |
| | Copy | □ 74 |
| | Copy files between memory card and internal memory. | |



## Displaying the Playback Menu

Press the ▶ (playback) button to enter playback mode (□ 61).

Display the playback menu by pressing the MENU button.




- Use the multi selector to choose and apply settings (□ 11).
- To exit the playback menu, press the MENU button.

# Print Order

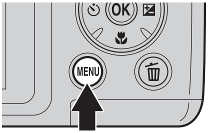
▶ button (Playback mode) ➔ MENU (Playback menu) ➔ Print order

When printing images using one of the following methods, you can select which images will be printed and the number of copies of each image will be printed, and save this electronic "print order" information on the memory card.

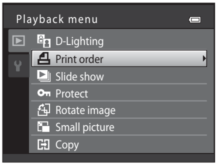
- Printing by inserting the camera's memory card into the card slot of a DPOF-compatible printer (📖 144)
- Printing by taking the camera's memory card to a photo lab
- Printing by connecting the camera (📖 97) to a PictBridge-compatible printer (📖 144) (by removing the memory card from the camera, you can also use this method to print images saved in the internal memory)

**1** Press the MENU button in playback mode.

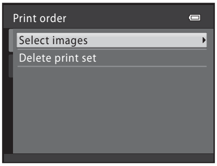
The playback menu is displayed.



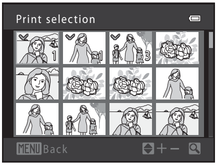

**2** Use the multi selector to choose **Print order** and press the OK button.




**3** Choose **Select images** and press the OK button.



## 4 Choose the images (up to 99) and number of copies (up to nine) of each.



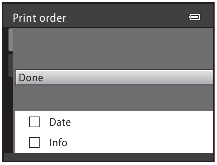

Press the multi selector ◀ or ▶ to choose the desired images. Press ▲ or ▼ to set the number of copies for each.

Images selected for printing can be identified by the check mark (✓) and the numeral indicating the number of copies to be printed. Images for which no copies have been specified will not be printed.

Rotate the zoom control to **T** (Q) to display full-frame playback, and **W** (⊞) to switch back to 12 thumbnails.

Press the Ⓚ button when setting is complete.

## 5 Choose whether or not to also print shooting date and shooting information.

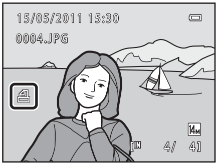



Choose **Date** and press the Ⓚ button to print date of shooting on all images in the print order.

Choose **Info** and press the Ⓚ button to print shooting information (shutter speed and aperture) on all images in the print order.

Choose **Done** and press the Ⓚ button to complete the print order and exit.

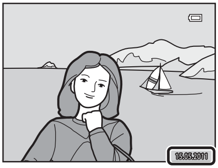
Images specified for **Print order** are indicated during playback by the 🖶 icon.



## Notes on Printing Shooting Date and Shooting Information

When the **Date** and **Info** options are enabled in the print order menu, shooting date and shooting information are printed on images when a DPOF-compatible printer (□ 144) which supports printing of shooting date and shooting information is used.

- Shooting information cannot be printed when the camera is connected directly to a printer, via the supplied USB cable, for DPOF printing (□ 101).
- **Date** and **Info** are reset each time the **Print order** menu is displayed.
- The date and time printed on images with DPOF printing when **Date** in the **Print order** menu is enabled, are those saved with the image when it was captured. Changing the camera's date using the **Date and time** or **Time zone** setting in the **Time zone and date** option in the setup menu after an image has been captured has no effect on the date printed on the image.




## Deleting All Print Orders

Select **Delete print set** in step 3 of the print order procedure (□ 67) and press the ® button to delete print orders for all images.

## Print Date

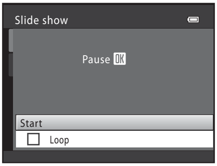
The shooting date and time can be imprinted in images at the time of shooting by using **Print date** (□ 112) in the setup menu. Dates can be printed from printers that do not support date imprinting (□ 69). Only the **Print date** date and time on images will be printed, even if **Print order** is enabled with date selected in the print order screen.

# Slide Show

▶ button (Playback mode) ➔ MENU (Playback menu) ➔ Slide show

View images saved in the internal memory or on a memory card in an automatic slide show.

## 1 Use the multi selector to choose **Start** and press the ⊛ button.




To repeat the slide show automatically, select **Loop** and press the ⊛ button before selecting **Start**. The check mark (✔) is added to the loop option when enabled.

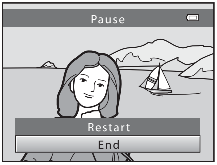
## 2 The slide show begins.



While the slide show is in progress, press the multi selector ▶ to display the next image or ◀ to display the previous image. Hold down either button to fast forward or rewind.

To end or pause the slide show, press the ⊛ button.

## 3 Choose **End** or **Restart**.




The screen shown on the right is displayed when the slide show has ended or is paused. Choose **End** and press the ⊛ button to return to the playback menu. Choose **Restart** to play the slide show again.

### Notes on Slide Show

- Only the first frame of movies (▯ 87) included in slide shows is displayed.
- Even if **Loop** is selected, the monitor can continuously display the slide show for up to 30 minutes (▯ 116).

# Protect

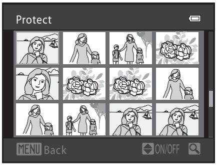
▶ button (Playback mode) → MENU (Playback menu) → Protect

Protect selected images from accidental deletion. Use the image selection screen to turn protection on and off for selected images (see "Selecting Multiple Images" (72) for more information).

Note, however, that formatting the camera's internal memory or the memory card will permanently erase protected files (117).

Protected images can be identified by the icon (9, 63) in playback mode.

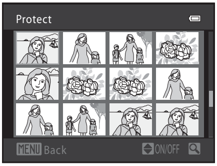
## Selecting Multiple Images




When using one of the following features, a screen shown on the right is displayed when selecting images.

- Print order > **Select images** (□ 67)
- Protect (□ 71)
- Rotate image (□ 73)
- Copy > **Selected images** (□ 74)
- Welcome screen > **Select an image** (□ 105)
- Delete image > **Erase selected images** (□ 27)

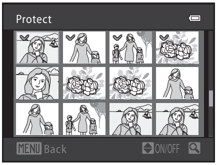
**1** Press the multi selector ◀ or ▶ to choose the desired image.




Rotate the zoom control to **T** (Q) to display full-frame playback, and **W** (▦) to switch back to 12 thumbnails.

Only one image can be selected for **Welcome screen** and **Rotate image**. Proceed to step 3.

**2** Press ▲ or ▼ to select or deselect (or specify the number of copies).




When **ON** is selected, ✓ is displayed. Repeat steps 1 and 2 to select additional images.

**3** To fix the selection of images, press the OK button.

A confirmation dialog is displayed for certain screens, such as **Selected images**. In this case follow the on-screen directions.

# Rotate Image

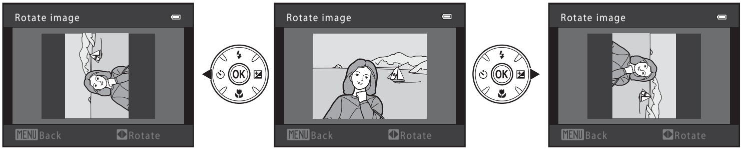
| |
|---|
| ▶ button (Playback mode) → MENU (Playback menu) → Rotate image |

Set the image orientation (vertical or horizontal frame) displayed on the camera monitor after the pictures are taken.

Images can be rotated 90° clockwise or counterclockwise.

Images that were saved in the portrait (vertical) orientation can be rotated up to 180° in either direction.

Select images on the image selection screen (72) to display the image rotation screen. Press the multi selector ◀ or ▶ to rotate the image 90°.




Rotate 90° counterclockwise

Rotate 90° clockwise

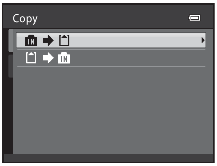
Press the OK button to select the displayed direction and the vertical / horizontal position data will be saved on the image.

# Copy: Copying Between Memory Card and Internal Memory

▶ button (Playback mode) ➔ MENU (Playback menu) ➔ Copy

Copy images between the internal memory and a memory card.

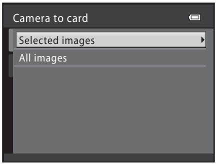
**1** Select an option from the copy screen using the multi selector and press the OK button.




IN ➔ card: Copy images from internal memory to memory card.

card ➔ IN: Copy images from memory card to internal memory.

**2** Choose the copy option and press the OK button.




**Selected images**: Copy images selected from the image selection screen (☐ 72).

**All images**: Copy all images.

## Notes on Copy

- JPEG- and MOV-format files can be copied. Files saved in any other format cannot be copied.
- Images captured with another make of camera or that have been modified on a computer cannot be copied.
- When copying images for which **Print order** (☐ 67) options are enabled, the print order settings are not copied. However, when copying images for which **Protect** (☐ 71) is enabled, the protect setting is copied.

## Memory contains no images. Message

If there are no images saved on a memory card inserted in the camera when playback mode is applied, the message **Memory contains no images.** will be displayed. Press the MENU button to display the copy option screen, and copy the images saved in the camera's internal memory to the memory card.

## More Information

See "File and Folder Names" (☐ 131) for more information.

# Image Editing Function

Use the camera to edit images in-camera and save them as separate files. The editing features described below are available (📖 131).

| Editing function | Description |
|---|---|
| D-Lighting (📖 76) | Create a copy of the current image with enhanced brightness and contrast, brightening dark portions of the image. |
| Small picture (📖 77) | Create a small copy of images suitable for use as e-mail attachments. |
| Crop (📖 78) | Crop a portion of the image. Use to zoom in on a subject or arrange a composition. |

## Notes on Image Editing

- Images captured at an **Image mode** setting (📖 53) of **4224×2376** or **1920×1080** cannot be edited.
- Only images captured with the COOLPIX L120 can be edited with this camera.
- When using a different model of digital camera, images edited with this camera may not be displayed properly and may not be able to be transferred to a computer.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card.

## Restrictions on Image Editing

The following limitations apply when editing images that were created by editing.

| Editing function used first | Additional editing functions |
|---|---|
| D-Lighting | Small picture and crop can be used. |
| Small picture<br>Crop | Additional editing is not possible. |

- Images cannot be edited twice with the same editing function.
- To use D-Lighting together with small picture or crop, use D-Lighting first, and use small picture or crop as the last edit function performed on that image.

## Original Images and Edited Copies

- Copies created with editing functions are not deleted even if the original images are deleted. The original images are not deleted even if copies created with editing functions are deleted.
- Edited copies are saved with the same shooting date and time as the original.
- Edited copies do not retain the **Print order** (📖 67) and **Protect** (📖 71) settings of the original.

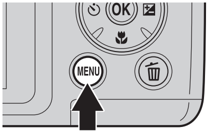
# Editing Images

## D-Lighting: Enhancing Brightness and Contrast

D-Lighting can be used to create copies with enhanced brightness and contrast, brightening dark portions of an image. Enhanced copies are saved as separate files.

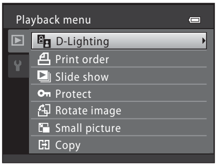
**1** Select the desired image in full-frame playback mode (□ 61) or thumbnail playback mode (□ 62) and press the MENU button.

The playback menu is displayed.




**2** Use the multi selector to choose **D-Lighting** and press the OK button.

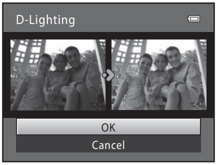
The original version is displayed on the left and the edited version is displayed on the right.




**3** Choose **OK** and press the OK button.

A new image with enhanced brightness and contrast is created.

To cancel, select **Cancel** and press the OK button.




Images created with D-Lighting can be identified by the icon displayed during playback.




### More Information

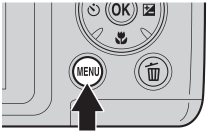
See "File and Folder Names" (□ 131) for more information.

# Small Picture: Decreasing Image Size

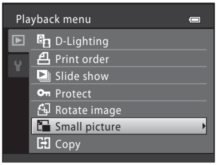
Create a small copy of the current image. Suitable for uploading to websites or sending by e-mail. The following sizes are available: **640×480**, **320×240**, and **160×120**. Small copies are saved as JPEG files with a compression ratio of 1:16.

**1** Select the desired image in full-frame playback mode (61) or thumbnail playback mode (62) and press the MENU button.

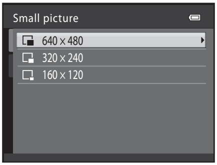
The playback menu is displayed.




**2** Use the multi selector to choose **Small picture** and press the OK button.




**3** Choose the desired copy size and press the OK button.

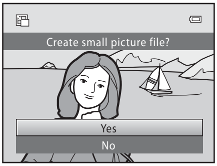



**4** Choose **Yes** and press the OK button.

A new, smaller copy is created.

To cancel, select **No** and press the OK button.

The copy is displayed with a black frame.



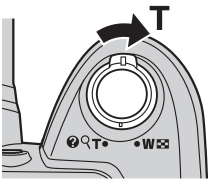

## More Information

See "File and Folder Names" (131) for more information.

# Crop: Creating a Cropped Copy

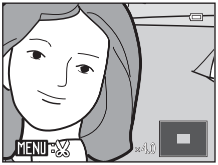
Create a copy containing only the portion visible in the monitor when MENU: is displayed with playback zoom (□ 64) enabled. Cropped copies are saved as separate files.

## 1 Rotate the zoom control to T (Q) in full-frame playback mode (□ 61) to zoom in on the image.




To crop an image displayed in "tall" (portrait) orientation, zoom in on image until the black bars displayed on the both sides of the monitor disappear. The cropped image is displayed in landscape orientation. To crop the image in its current "tall" (portrait) orientation, first, use the **Rotate image** option (□ 73) to rotate the image so that it is displayed in landscape orientation. Next, enlarge the image for cropping, crop the image, and then rotate the cropped image back to "tall" (portrait) orientation.

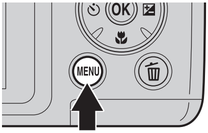
## 2 Refine copy composition.



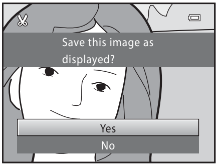

Rotate the zoom control to **T** (Q) or **W** (▦) to adjust the zoom ratio.

Press the multi selector ▲, ▼, ◀ or ▶ to scroll the image until only the portion you want to copy is visible in the monitor.

## 3 Press the MENU button.




## 4 Use the multi selector to select **Yes** and press the ® button.




A cropped copy is created.

To exit without saving the copy, choose **No** and press the ® button.

### About the size of the original image

As the area to be saved is reduced, the image size (pixels) of the cropped copy is also reduced. When the image is cropped and the size of the cropped copy is 320 × 240 or 160 × 120, the image is displayed with a black border on the playback screen, and the small picture icon or is displayed on the left of the playback screen.

### More Information

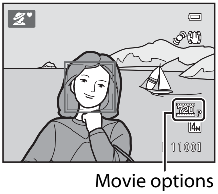
See "File and Folder Names" (□ 131) for more information.

# Recording Movies

You can use the camera to record high-definition movies with sound.

- The maximum file size for a single movie is 4 GB and the maximum movie length for a single movie is 29 minutes, even when there is sufficient free space on the memory card for longer recording (📖 84).

## 1 Turn the camera on and display the shooting mode screen.




Recording of a movie can be started in any shooting mode (📖 33).

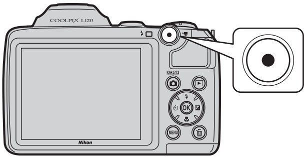
The current movie options setting is displayed. The default setting is 720P **HD 720p (1280×720)** (📖 84).

When recording movies, the angle of view (i.e., the area visible in the frame) is narrower compared to that of still images.

## 2 Lower the flash (📖 7)

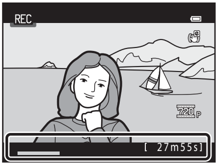
Recording movies while the flash is raised may cause the audio to be muffled.

## 3 Press the ● (🎥 movie-record) button to start recording.



Recording begins after the monitor turns off briefly.

The camera focuses on the subject in the center of the frame. The focus area is not displayed while recording movies.




When **Movie options** is set to 720P **HD 720p (1280×720)**, the aspect ratio is 16:9 and the movie is recorded as shown on the right.

The frame indicating the range that is saved when a movie is recorded can be displayed in the monitor before starting to record a movie by setting **Monitor settings** (📖 110) in the setup menu to **Movie frame+auto info**.

The approximate remaining movie length is displayed during recording. Recording stops automatically when the maximum movie length has been recorded.

## 4 Press the ● (🎥 movie-record) button to stop recording.



## While the Camera Is Saving Movies

When movie recording stops, the movie is not completely saved until the shooting screen is displayed. **Do not open the battery-chamber / memory card slot cover.** Removing the memory card or the battery while a movie is being saved may result in loss of the movie data or damage to the camera or the memory card.

## Recording Movies

- When recording movies, we recommend using a memory card with a Class 6 or higher speed class rating (□ 130). When using a memory card with a low speed class, recording may stop unexpectedly.
- There may be some degradation in image quality when digital zoom is used. If the digital zoom is not being used when movie recording begins, turning and holding the zoom control or the side zoom control toward **T** magnifies the image using optical zoom and the zoom stops at the maximum optical zoom ratio. After letting go of the zoom control, turn the zoom control toward **T** again to magnify the image using the digital zoom.
- When recording ends, digital zoom turns off.
- The sounds of zoom control operation, zoom, autofocus lens drive movement, and aperture operation when brightness changes may be recorded.
- Smear (□ 128) visible in the monitor when recording will be visible in the saved image data. To reduce smear effects, avoid bright objects such as the sun, reflections of the sun, and electric lights when recording movie.
- At a certain focus distance or zoom ratio, colored stripe patterns (such as fringe or moire patterns) may appear on subjects with repeating patterns (such as a piece of fabric or a lattice window of a building). This is a phenomenon that occurs when the pattern of the subject interferes with the alignment of the image sensor, and is not a malfunction.
- The camera, battery or memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

## Autofocus

- When **Autofocus mode** in the movie menu is set to AF-S **Single AF** (default setting), focus is locked when the ● (movie-record) button is pressed and recording starts (□ 85).
- Autofocus may not perform as expected in certain situations (□ 25). Try using the following methods in these situations.
  1. Before recording, set **Autofocus mode** to AF-S **Single AF** (default setting) in the movie menu.
  2. Aim the camera at another subject that is positioned the same distance from the camera as the desired subject, press the ● (movie-record) button to start recording, then aim the camera at the desired subject.

## Functions Available in Movie Mode

- The settings for exposure compensation, white balance and color options are applied when recording movies. When macro mode is enabled, movies of subjects closer to the camera can be recorded. Confirm settings before starting movie recording.
- When using the self-timer, the camera waits for 10 seconds after the ● (movie-record) button is pressed, then focuses and begins recording.
- Flash will not fire.
- Press the MENU button to select the movie (movie) tab and adjust movie menu settings before starting movie recording (82).
- Vibration reduction for movie recording can be set with **Electronic VR** (85) in the movie menu.

# Changing Movie Recording Settings

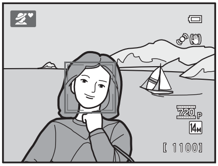
The following options can be adjusted from the movie menu.

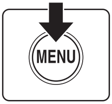
| Option | Page |
|---|---|
| Movie options | 🕮 84 |
| Select the type of movies that are recorded. | |
| Autofocus mode | 🕮 85 |
| Select how the camera focuses in movie mode. | |
| Electronic VR | 🕮 85 |
| Select the electronic vibration reduction setting that is used when recording movies. | |
| Wind noise reduction | 🕮 86 |
| Reduces the effects of wind noise when recording movies. | |
| Enhanced resolution | 🕮 86 |
| Set whether or not to enhance the resolution during movie recording. | |

## Displaying the Movie Menu

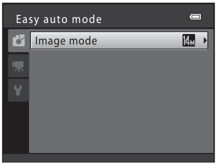
**1** Display the shooting screen and press the MENU button.

The menu is displayed.



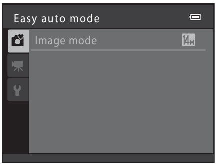



When using easy auto mode, scene mode, or smart portrait mode, press the multi selector (🕮 11) ◀ to display the tabs.

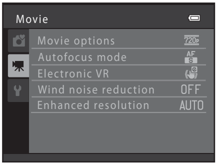



**2** Press the multi selector ◀.

You can now select a tab.



## 3 Press ▲ or ▼ to select the 🎥 tab.

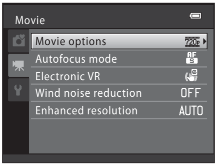



## 4 Press ▶ or the ⓚ button.

You can now select an item from the movie menu.

Use the multi selector to choose and apply settings (📖 11).

To exit the movie menu, press the MENU button or press ◀ and select another tab.



# Movie Options

Display the shooting screen ➔ MENU ➔ 🎥 (Movie menu) (📖 82) ➔ Movie options

Select the type of movies that are recorded.

| Option | Description |
|---|---|
| 720P HD 720p (1280×720) (default setting) | Movies with an aspect ratio of 16:9 are recorded in high definition. This option is suited to playback on a wide screen TV.<br>• Image size: 1280 × 720 pixels<br>• Movie bitrate: 9 Mbps |
| iFrame iFrame 540 (960×540) | Movies with an aspect ratio of 16:9 are recorded. A format supported by Apple Inc. When recording movies to the internal memory, recording may stop unexpectedly in some shooting conditions. When recording movies of important events, recording to a memory card (class 6 or higher) is recommended.<br>• Image size: 960 × 540 pixels<br>• Movie bitrate: 24 Mbps |
| VGA VGA (640×480) | Movies with an aspect ratio of 4:3 are recorded.<br>• Image size: 640 × 480 pixels<br>• Movie bitrate: 3 Mbps |

- The movie bitrate is the volume of movie data recorded per second. As a variable bitrate (VBR) system has been adopted, the movie recording rate varies automatically according to the subject so that more data is recorded per second for movies containing frequently moving subjects, thus increasing movie file size.
- The frame rate is approximately 30 frames per second in any options.

## Movie Options and Maximum Movie Length

| Option | Internal memory (Approx. 102 MB) | Memory card (4 GB)* |
|---|---|---|
| 720P HD 720p (1280×720) (default setting) | 1 min 32 s | 55 min |
| iFrame iFrame 540 (960×540) | 34 s | 15 min |
| VGA VGA (640×480) | 4 min 22 s | 2 h 30 min |

All figures are approximate. The maximum movie length varies depending on the type of memory card used, the bit rate of recorded movies, etc.

* The maximum file size for a single movie is 4 GB and the maximum movie length for a single movie is 29 minutes, even when there is sufficient free space on the memory card for longer recording.

## More Information

See "File and Folder Names" (📖 131) for more information.

# Autofocus Mode

| Display the shooting screen ➔ MENU ➔ 🎥 (Movie menu) (📖 82) ➔ Autofocus mode |
|---|

Choose how the camera focuses in movie mode.

| Setting | Description |
|---|---|
| AF-S Single AF (default setting) | Focus is locked when the ● (🎥 movie-record) button is pressed to start recording. Select this option when the distance between the camera and the subject will remain fairly consistent. |
| AF-F Full-time AF | Camera focuses continuously. Select this option when the distance between the camera and subject will change significantly during recording. The sound of the camera focusing may be heard in the recorded movie. Use of **Single AF** is recommended to prevent the sound of the camera focusing from interfering with recording. |

# Electronic VR

| Display the shooting screen ➔ MENU ➔ 🎥 (Movie menu) (📖 82) ➔ Electronic VR |
|---|

Select the electronic vibration reduction setting that is used when recording movies.

| Option | Description |
|---|---|
| On (default setting) | Reduces the effects of camera shake in movie modes. |
| OFF Off | Electronic VR is not enabled. |

When electronic VR is set to **On**, is displayed when movie recording starts (📖 8).

## Wind Noise Reduction

Display the shooting screen ➔ MENU ➔ 🎥 (Movie menu) (📖 82) ➔ Wind noise reduction

Reduces the effects of wind noise when recording movies.

| Setting | Description |
| --- | --- |
| On | Reduces the sound heard when wind passes over the microphone. Select this setting when recording in places with strong wind. Using this setting may make other sounds difficult to hear during playback. |
| OFF Off (default setting) | Turns Wind noise reduction off. |

The icon for the current setting is displayed in the monitor during shooting (📖 8). When set to **Off**, no icon is displayed.

## Enhanced Resolution

Display the shooting screen ➔ MENU ➔ 🎥 (Movie menu) (📖 82) ➔ Enhanced resolution

Set whether or not to enhance the resolution during movie recording.

| Option | Description |
| --- | --- |
| Auto (default setting) | Resolution is enhanced automatically. Silhouettes appear crisp. In certain situations, such as when the subject is dimly lit, the desired results may not be achieved. |
| Off | Enhanced resolution is disabled. |

When changes in the brightness of the subject are severe, selecting **Off** may be appropriate. Change the setting and experiment to find the ideal setting for each situation.

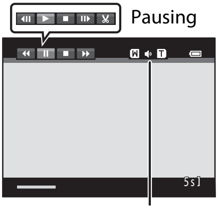
# Movie Playback

In full-frame playback mode (📖 26), movies can be identified by the Movie options icon (📖 84). To play a movie, display it in full-frame playback mode and press the ⓞ button.




Use the zoom control **T**/**W** during playback to adjust the volume.

Playback controls are displayed at the top of the monitor. Press the multi selector ◀ or ▶ to choose a control and press the ⓞ button to perform the following operations.

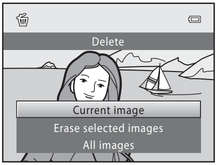



| Function | Icon | Description | |
|---|---|---|---|
| Rewind | ◀◀ | Rewind movie. Playback resumes when the ⓞ button is released. | |
| Advance | ▶▶ | Advance movie. Playback resumes when the ⓞ button is released. | |
| Pause | II | Pause playback. The following operations can be performed while playback is paused using the controls displayed at the top in the monitor. | |
| | | ◀II | Rewind movie by one frame. Rewind continues while the ⓞ button is pressed. |
| | | II▶ | Advance movie by one frame. Advance continues while the ⓞ button is pressed. |
| | | ▶ | Resume playback. |
| | | ✂ | Press the ⓞ button to cut unwanted portions of a movie so that only the desired portions of a movie are saved (📖 88). |
| End | ■ | End playback and return to full-frame playback. | |

### ✔ Note on Movie Playback

Only movies recorded with COOLPIX L120 can be played back.

## Deleting Movies




Select a movie and press the 🗑 button in full-frame playback mode (📖 61) or thumbnail playback mode (📖 62). A confirmation dialog is displayed.

See "Deleting Unwanted Images" (📖 27) for more information.

# Editing Movies

The desired portions of a recorded movie can be saved as a separate file.

**1** Play back the desired movie and pause playback (📖 87).

**2** Press the multi selector ◀ or ▶ to choose the [edit] control, and then press the (OK) button.

The movie edit screen is displayed.

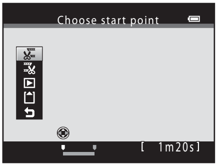



**3** Press ▲ or ▼ to choose the [start point] control (choose start point).

When editing a movie, the frame displayed when the movie was paused is the start point of the edit.

Press ◀ or ▶ to move the start point to the beginning of the desired portion of the movie.

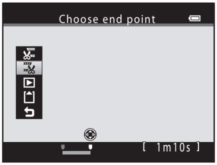
To cancel editing, press ▲ or ▼ to choose [return] (return), and press the (OK) button.




**4** Press ▲ or ▼ to choose [end point] (choose end point).

Press ◀ or ▶ to move the end point on the right edge to the end of the desired portion of the movie.

Select ▶ (preview) and press the (OK) button to play back the specified portion of the movie that will be saved. While the preview is playing, rotate the zoom control to **T**/**W** to adjust the volume. While the preview is playing back, press the (OK) button again to stop playback.

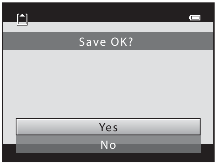



**5** When the settings are finished, press ▲ or ▼ to choose [save] **Save** and press the (OK) button.

**6** Choose **Yes** and press the (OK) button.

The edited movie is saved.

To exit without saving, select **No**.



## Notes on Movie Editing

- A movie that was created by editing cannot be trimmed again. To trim another area of the movie, select and edit the original movie.
- Movies are trimmed in one-second intervals, therefore the actual trimmed portion of the movie may differ slightly from the selected start and end points. Movies cannot be trimmed so that they are less than 2 seconds long.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card to save the edited copies.
- Movies captured at a **Movie options** setting (84) of **iFrame 540 (960×540)** cannot be edited.

## More Information

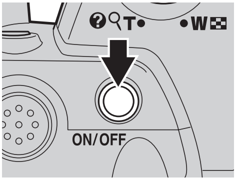
See "File and Folder Names" (131) for more information.

# Connecting to a TV

Connect the camera to a television to play back images on the television.

If you have an HDMI compatible TV, you can enjoy playing back images at high definition image quality by connecting the camera to the television using an HDMI cable (available separately from third-party suppliers).

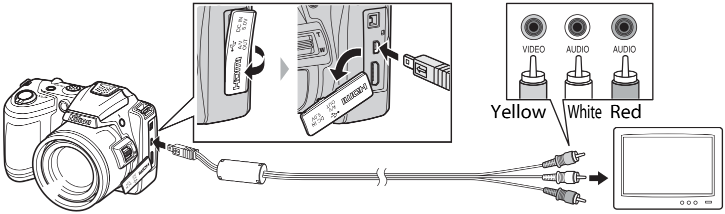
## 1 Turn off the camera.




## 2 Connect the camera to the TV.

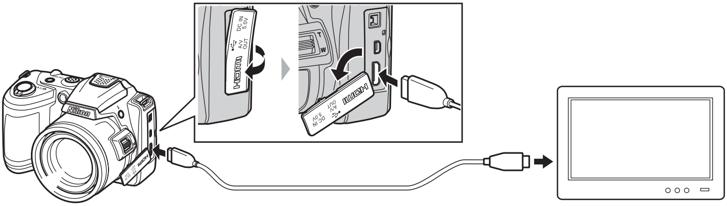
**When using the supplied audio/video cable**

Connect the yellow plug to the video-in jack and the white and red plugs to the audio-in jacks on the TV.




**When using an HDMI cable (available separately from third-party suppliers)**

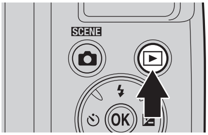
Connect the HDMI cable to the HDMI input on the TV.



## 3 Tune the television to the video channel.

See the documentation provided with your television for details.

## 4 Hold down the ▶ button to turn on the camera.




The camera enters playback mode, and the images captured are displayed on the television.

While connected to the TV, the camera monitor remains off.

### Notes on HDMI Connection

- An HDMI cable is not included. Please purchase an HDMI cable. The camera's HDMI output uses an HDMI mini connector (Type C). When purchasing an HDMI cable, confirm that one end of the cable has an HDMI mini-pin connector.
- To play back images and movies in high definition on an HDMI-compatible TV, we recommend capturing still images with **Image mode** (□ 53) set to **2048×1536** or higher, and recording movies with **Movie options** (□ 84) set to **HD 720p (1280×720)** or higher.

### Notes on Connecting the Cable

- When connecting the cable, be sure that the camera connector is properly oriented. Do not use force when connecting the cable to the camera. When disconnecting the cable, do not pull the connector at an angle.
- Do not connect an audio/video cable and an HDMI cable to the camera at the same time.
- Do not connect a USB cable and an HDMI cable to the camera at the same time.

### If the Images Are Not Displayed on the Television

Be sure that the camera's video mode setting conforms to the standard used by your television. The video mode setting is an option set in the **Set up** menu (□ 103) → **TV settings** (□ 119).

### Using a TV Remote Control (HDMI Device Control)

A remote control for an HDMI-CEC compatible television can be used to control the camera during playback.

The TV's remote control can be used in place of the multi selector and zoom control to control the camera during playback. Image selection, movie playback and pause, and switching between full-frame playback mode and 4-image thumbnail display mode are available.

- Set **HDMI device control** (□ 119) in **TV settings** to **On** (default setting), and then connect the camera using an HDMI cable.
- Operate the remote control by pointing it toward the TV.
- Refer to the TVs operating instructions for information about the TVs HDMI-CEC compatibility.

# Connecting to a Computer

Use the supplied USB cable to connect the camera to a computer and copy (transfer) images to the computer.

## Before Connecting the Camera

### Install the Software

Use the supplied ViewNX 2 CD and install the following software on the computer.

For more information on installing the software, refer to the *Quick Start Guide*.

- ViewNX 2: Use the image transfer feature "Nikon Transfer 2" to save images that were captured with the camera on the computer. Saved images can be viewed and printed. Image and movie editing features are also supported.
- Panorama Maker 5: This software can join a series of images to create a single panorama image.

### Compatible Operating Systems

#### Windows

Windows 7 Home Basic/Home Premium/Professional/Enterprise/Ultimate, Windows Vista Home Basic/Home Premium/Business/Enterprise/Ultimate (Service Pack 2), or Windows XP Home Edition/Professional (Service Pack 3)

#### Macintosh

Mac OS X (version 10.4.11, 10.5.8, 10.6.5)

Refer to the Nikon website for the latest information on operating system compatibility.

#### Notes on Power Source

- When connecting the camera to a computer, use batteries with a sufficient amount of charge remaining to prevent the camera from turning off unexpectedly.
- To power the camera continuously for extended periods, use an AC Adapter EH-67 (available separately) (129). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

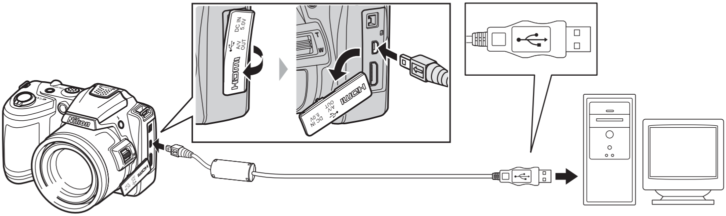
# Transferring Images from a Camera to a Computer

**1** Start the computer to which ViewNX 2 was installed.

**2** Be sure that the camera is off.

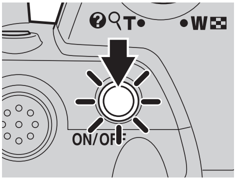
**3** Connect the camera to the computer using the supplied USB cable.

Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



**4** Turn on the camera.

The power-on lamp will light. The camera monitor will remain off.




### Connecting the USB Cable

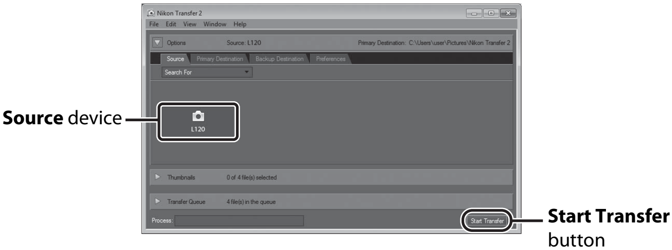
The connection may not be recognized if the camera is connected to the computer via a USB hub.

**5** Start the ViewNX 2 image transfer feature "Nikon Transfer 2" installed on the computer.

- **Windows 7**
  When the **Devices and Printers** ▶ **L120** screen is displayed, click **Change program** under **Import pictures and videos**. Select **Import File using Nikon Transfer 2** in the **Change program** dialog and click **OK**.
  Double-click **Import File** on the **Devices and Printers** ▶ **L120** screen.
- **Windows Vista**
  When the **AutoPlay** dialog is displayed, click **Import File using Nikon Transfer 2**.
- **Windows XP**
  When the action selection dialog is displayed, select **Nikon Transfer 2 Import File**, and click **OK**.
- **Mac OS X**
  Nikon Transfer 2 will start automatically when the camera is connected to the computer if **Yes** was selected in the **Auto-Launch setting** dialog when ViewNX 2 was first installed.

- See "Starting Nikon Transfer 2 Manually" (📖 96) for more information.
- If there are a large number of images on the memory card, it may take some time for Nikon Transfer 2 to start.

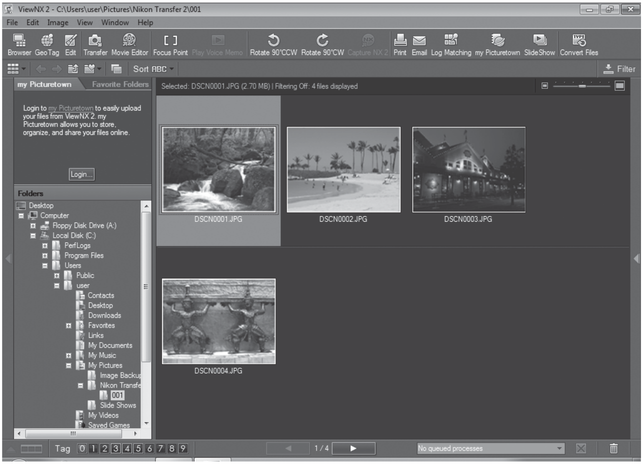
**6** Confirm that the source device is displayed in the transfer options **Source** panel and click **Start Transfer**.




Any images that have not been transferred to the computer will be transferred (default setting of ViewNX 2).

Connecting to Televisions, Computers and Printers

When transfer is complete, the ViewNX 2 screen is displayed (ViewNX 2 default setting) and transferred images are displayed.




For more information on using ViewNX 2, refer to the ViewNX 2 help information (📖 96).

## Disconnecting the Camera

Do not turn off the camera or disconnect the camera from the computer during transfer.

When transfer is complete, turn off the camera and disconnect the USB cable.

## Transferring Images Using a Computer's Card Slot or a Commercially-available Card Reader

When the memory card is inserted into a computer's card slot or into a commercially-available card reader, the images can be transferred using "Nikon Transfer 2", the image transfer feature of ViewNX 2.

- Make sure that the memory card being used is supported by the card reader or other card reading device.
- To transfer images, insert the memory card into the card reader or card slot and follow the procedure from step 5 (□ 94).
- To transfer images saved in the camera's internal memory, the images must first be copied to a memory card using the camera (□ 74).

## Starting ViewNX 2 Manually

**Windows**

Choose **Start** menu > **All Programs** > **ViewNX 2** > **ViewNX 2**.

Double-clicking the **ViewNX 2** shortcut icon on the desktop will also start ViewNX 2.

**Mac OS X**

Open the **Applications** folder, open the **Nikon Software** > **ViewNX 2** folders in that order, and then double-click the **ViewNX 2** icon. Clicking the **ViewNX 2** icon on the Dock will also start ViewNX 2.

## Starting Nikon Transfer 2 Manually

To start Nikon Transfer 2, first start ViewNX 2, and then click the **Transfer** icon at the top of the screen or select **Launch Transfer** from the **File** menu.

## For More Information on Using ViewNX 2 and Nikon Transfer 2

For more information on ViewNX 2 or Nikon Transfer 2, start ViewNX 2 or Nikon Transfer 2 and select **ViewNX 2 Help** from the **Help** menu.

## Panorama Creation with Panorama Maker 5

- Use a series of images captured in **Panorama assist** scene mode (□ 44) to create a single panorama photo with Panorama Maker 5.
- Panorama Maker 5 can be installed on a computer using the supplied ViewNX 2 CD.
- After installation is complete, follow the procedure described below to start Panorama Maker 5.

  **Windows**

  Choose **Start** menu>**All Programs**>**ArcSoft Panorama Maker 5**>**Panorama Maker 5**.

  **Mac OS X**

  Open **Applications** and double-click the **Panorama Maker 5** icon.

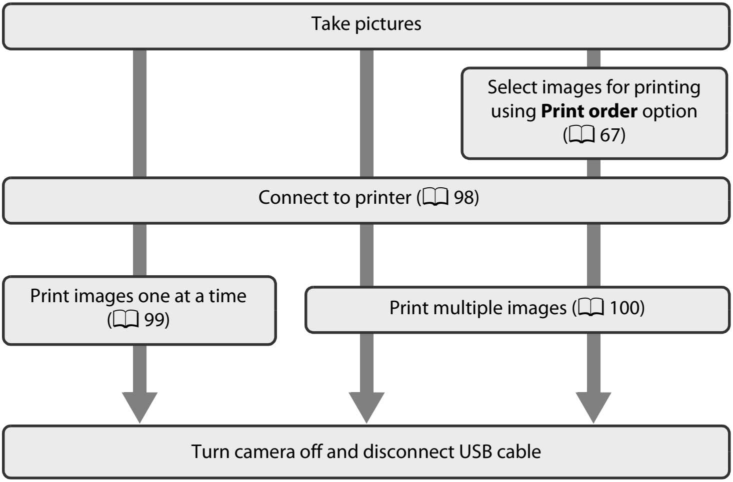
- For more information on using Panorama Maker 5, refer to the on-screen instructions and help information contained in Panorama Maker 5.

## Image File Names and Folder Names

See "File and Folder Names" (□ 131) for more information.

# Connecting to a Printer

Users of PictBridge-compatible (🕮 144) printers can connect the camera directly to the printer and print images without using a computer. Follow the procedures below to print images.






## Notes on Power Source

- When connecting the camera to a printer, use batteries with adequate charge remaining to power the camera to prevent the camera from turning off unexpectedly.
- To power the camera continuously for extended periods, use an AC Adapter EH-67 (available separately) (🕮 129). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

## Printing Images

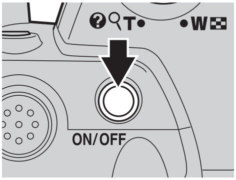
In addition to printing images transferred to a computer from your personal printer and printing over a direct camera-to-printer connection, the following options are also available for printing images:

- Insert a memory card into a DPOF-compatible printer's card slot
- Take a memory card to a digital photo lab

For printing using these methods, you can specify the images and the number of prints each using **Print order** in the playback menu (🕮 67).

# Connecting the Camera and Printer

**1** Turn off the camera.

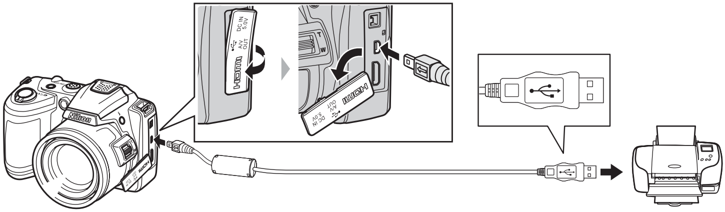



**2** Turn on the printer.

Check printer settings.

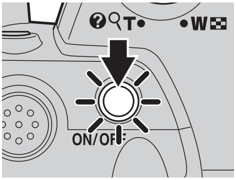
**3** Connect the camera to the printer using the supplied USB cable.

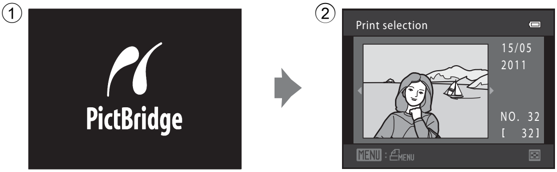
Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



**4** Turn on the camera.

When connected correctly, the **PictBridge** startup screen (①) is displayed in the camera monitor. Then the **Print selection** screen is displayed (②).



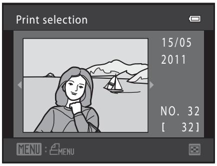



## Printing Images One at a Time

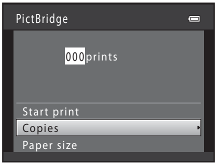
After connecting the camera to the printer correctly (□ 98), print images by following the procedure below.

**1** Use the multi selector to choose the desired image and press the OK button.

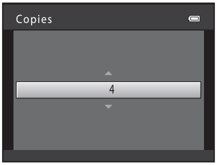
Rotate the zoom control to **W** (⊞) to display 12 thumbnails, and **T** (Q) to switch back to full-frame playback.



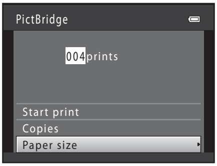

**2** Choose **Copies** and press the OK button.




**3** Choose the number of copies (up to nine) and press the OK button.

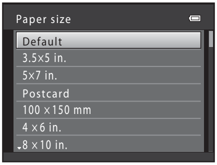



**4** Choose **Paper size** and press the OK button.

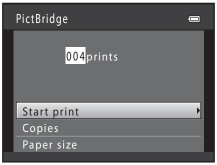



**5** Choose the desired paper size and press the OK button.

To specify paper size using printer settings, choose **Default** in the paper size menu.



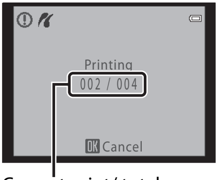
**6** Choose **Start print** and press the ⓚ button.




**7** Printing starts.

Monitor display returns to that shown in step 1 when printing is complete.

To cancel before all copies have been printed, press the ⓚ button.



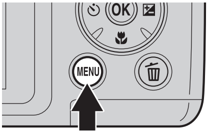

Current print/ total number of prints

## Printing Multiple Images

After connecting the camera to the printer correctly (📖 98), print images by following the procedure below.

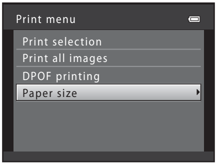
**1** When the **Print selection** screen is displayed, press the MENU button.

The **Print menu** is displayed.



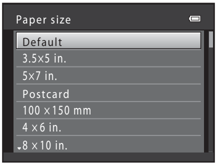

**2** Use the multi selector to choose **Paper size** and press the ⓚ button.

Press the MENU button to exit the print menu.

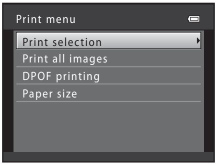



**3** Choose the desired paper size and press the ⓚ button.

To specify paper size using printer settings, choose **Default** in the paper size menu.



**4** Choose **Print selection**, **Print all images** or **DPOF printing** and press the OK button.



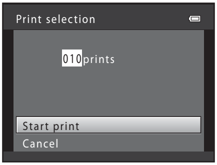

## Print selection

Choose the images (up to 99) and number of copies (up to nine) of each.

- Press the multi selector ◀ or ▶ to select images, and press ▲ or ▼ to set the number of copies for each.
- Images selected for printing can be identified by the check mark (✓) and the numeral indicating the number of copies to be printed. Images for which no copies have been specified will not be printed.
- Rotate the zoom control to **T** (Q) to display full-frame playback, and **W** (▦) to switch back to 12 thumbnails.



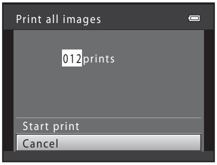

- Press the OK button when setting is complete.
- The menu shown on the right is displayed. To print, select **Start print** and press the OK button. Choose **Cancel** and press the OK button to return to the print menu.




## Print all images

All images saved in the internal memory, or on the memory card, are printed one at a time.

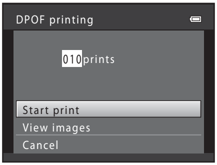
- The menu shown on the right is displayed. To print, select **Start print** and press the OK button. Choose **Cancel** and press the OK button to return to the print menu.



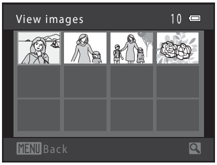
## DPOF printing

Print images for which a print order was created in **Print order** (📖 67).

- The menu shown on the right is displayed. To print, select **Start print** and press the ⊛ button. Choose **Cancel** and press the ⊛ button to return to the print menu.



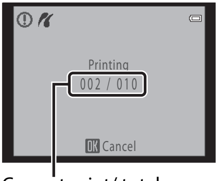

- To view the current print order, choose **View images** and press the ⊛ button. To print images, press the ⊛ button again.




# 5 Printing starts.

Monitor display returns to the print menu (step 2) when printing is complete.

To cancel before all copies have been printed, press the ⊛ button.




### Paper Size

The camera supports the following paper sizes: **Default** (the default paper size for the current printer), **3.5 × 5 in.**, **5 × 7 in.**, **100 × 150 mm**, **4 × 6 in.**, **8 × 10 in.**, **Letter**, **A3**, and **A4**. Only sizes supported by the current printer will be displayed.

# Setup Menu

The setup menu contains the following options.

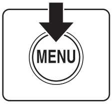
| | |
|---|---|
| **Welcome screen** | 105 |
| Specify the welcome screen displayed when the camera is turned on. | |
| **Time zone and date** | 106 |
| Set camera clock and choose home and destination time zones. | |
| **Monitor settings** | 110 |
| Adjust photo info, image review, and brightness settings. | |
| **Print date** | 112 |
| Imprint date on images. | |
| **Vibration reduction** | 113 |
| Specify the vibration reduction setting for capturing still images. | |
| **Motion detection** | 114 |
| Specify whether or not motion detection is used to reduce the effects of subject movement and camera shake when taking still images. | |
| **AF assist** | 115 |
| Enable or disable AF-assist illuminator. | |
| **Sound settings** | 115 |
| Specify sound settings. | |
| **Auto off** | 116 |
| Set the amount of time that passes before the monitor turns off to save power. | |
| **Format memory/Format card** | 117 |
| Format internal memory or memory card. | |
| **Language** | 118 |
| Choose the language used for camera monitor display. | |
| **TV settings** | 119 |
| Adjust settings for connection to a television. | |
| **Blink warning** | 119 |
| Set whether or not to detect human subjects with eyes closed when taking pictures using face detection. | |
| **Reset all** | 121 |
| Restore camera settings to default values. | |
| **Battery type** | 123 |
| Select the type of batteries used. | |
| **Firmware version** | 124 |
| Display camera firmware version. | |

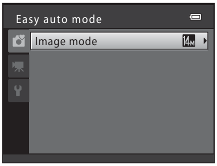
## Displaying the Setup Menu

**1** Press the MENU button.

The menu is displayed.

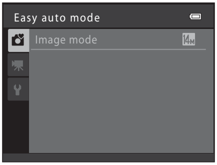
When using easy auto mode, scene mode, or smart portrait mode, press the multi selector (📖 11) ◀ to display the tabs.



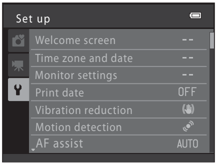




**2** Press the multi selector ◀.

You can now select a tab.




**3** Press ▲ or ▼ to select the Y tab.

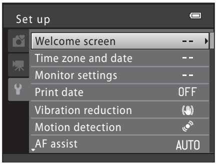



**4** Press ▶ or the OK button.

You can now select an item from the setup menu.

Use the multi selector to choose and apply settings (📖 11).

To exit the setup menu, press the MENU button or press ◀ and select another tab.



# Welcome Screen

| |
|---|
| MENU button ➔ Y (Setup menu) (□ 104) ➔ Welcome screen |

Specify the welcome screen displayed when the camera is turned on.

| None (default setting) |
|---|
| The welcome screen is not displayed when the camera is turned on; the shooting mode or playback mode screen is displayed. |
| **COOLPIX** |
| The welcome screen is displayed when the camera is turned on, then the shooting mode or playback mode screen is displayed. |
| **Select an image** |
| An image captured with this camera is used as the welcome screen. When the image selection screen is displayed (□ 72), select the desired image and press the OK button to register the image as the welcome screen.<br>• As the selected image is saved in the camera, the image is displayed in the welcome screen even if the original image is deleted.<br>• Images captured with an **Image mode** (□ 53) setting of **4224×2376** or **1920×1080**, and image copies created using small picture (□ 77) or crop (□ 78) that are 320 × 240 or smaller, cannot be selected. |

# Time Zone and Date

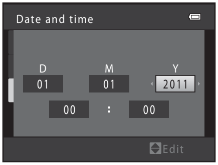
MENU button ➔ (Setup menu) (104) ➔ Time zone and date

Set the camera clock.

## Date and time

Set camera clock to current date and time.
Use the multi selector to set the date and time.

- Choose an item: Press ◀ or ▶ (to change between **D**, **M**, **Y**, **Hour**, and **Minute**).
- Edit the highlighted item: Press ▲ or ▼.
- Apply the setting: Choose Minute and press the OK button.




## Date format

The date can be displayed in the **Year/Month/Day**, **Month/Day/Year**, or **Day/Month/Year** order.

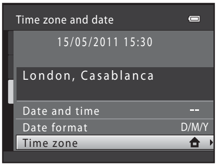
## Time zone

Set the home () time zone (district) or daylight saving time. When the destination (✈) time zone is selected, the time difference (109) is automatically calculated and the date and time in the selected region are saved. This can be useful when travelling.

## Setting Travel Destination Time Zone

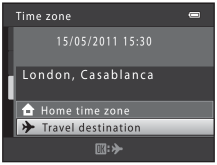
**1** Use the multi selector to choose **Time zone** and press the OK button.

The **Time zone** menu is displayed.



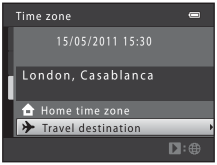

**2** Choose ✈ **Travel destination** and press the OK button.

The date and time displayed in the monitor changes according to the region currently selected.




**3** Press ▶.

The time zone selection screen menu is displayed.

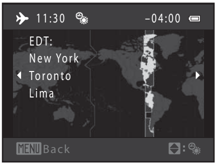


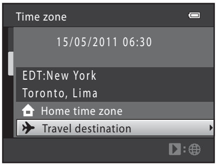

**4** Press ◀ or ▶ to select the travel destination time zone (city name).

To use the camera in an area where daylight saving time is in effect, press ▲ to display the daylight saving mark at the top of the monitor and set the daylight saving time. When the daylight saving time goes into effect, the clock is automatically advanced one hour. To turn off the daylight saving time setting, press ▼.

Press the OK button to enter the travel destination.

While the travel destination time zone is selected, the ✈ icon will be displayed in the monitor when the camera is in shooting mode.




Basic Camera Setup

## The Clock Battery

The camera's clock is powered by a clock battery that is independent of the batteries that power the camera. The clock battery charges when the main batteries are installed or an AC adapter is connected, and can provide several days of backup power after about 10 hours of charging.

## (Home Time Zone)

- To switch to the home time zone, choose **Home time zone** in step 2 and press the OK button.
- To change the home time zone, choose **Home time zone** in step 2 and perform steps 3 and 4, to set the home time zone.

## Daylight Saving Time

When the daylight saving time begins or ends, turn the daylight saving time option on or off using the time zone selection screen in Step 4.

## Imprinting the Date on Images

After setting the date and time, set the **Print date** setting (112) in the setup menu. Once **Print date** is set, the shooting date and time can be imprinted on the image data when taking pictures.

## Time Zones

The camera supports the time zones listed below.

For time zones not listed below, set the camera's clock manually to local time using **Date and time** in the setup menu.

| UTC +/- | Time zone | UTC +/- | Time zone |
|---|---|---|---|
| -11 | Midway, Samoa | +1 | Madrid, Paris, Berlin |
| -10 | Hawaii, Tahiti | +2 | Athens, Helsinki, Ankara |
| -9 | Alaska, Anchorage | +3 | Moscow, Nairobi, Riyadh, Kuwait, Manama |
| -8 | PST (PDT): Los Angeles, Seattle, Vancouver | +4 | Abu Dhabi, Dubai |
| -7 | MST (MDT): Denver, Phoenix | +5 | Islamabad, Karachi |
| -6 | CST (CDT): Chicago, Houston, Mexico City | +5.5 | New Delhi |
| -5 | EST (EDT): New York, Toronto, Lima | +6 | Colombo, Dhaka |
| -4.5 | Caracas | +7 | Bangkok, Jakarta |
| -4 | Manaus | +8 | Beijing, Hong Kong, Singapore |
| -3 | Buenos Aires, Sao Paulo | +9 | Tokyo, Seoul |
| -2 | Fernando de Noronha | +10 | Sydney, Guam |
| -1 | Azores | +11 | New Caledonia |
| ±0 | London, Casablanca | +12 | Auckland, Fiji |

# Monitor Settings

MENU button ➔ Y (Setup menu) (📖 104) ➔ Monitor settings

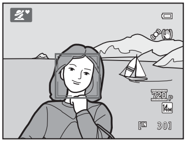
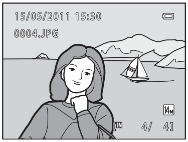
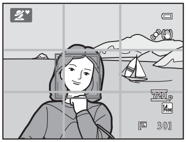
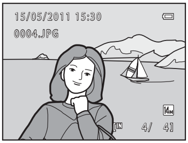
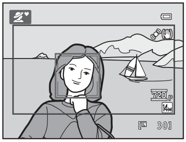
The following settings are available.

| Photo info |
|---|
| Choose information displayed in the monitor during shooting and playback mode. (📖 111) |
| **Image review** |
| • **On** (default setting): Images are automatically displayed briefly immediately after shooting.<br>• **Off**: Images are not displayed after shooting. |
| **Brightness** |
| Choose from five settings for monitor brightness. The default setting is **3**. |

## Photo Info

Select whether or not photo info is displayed.

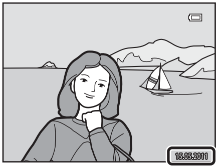
See "The Monitor" (📖 8, 9) for information on indicators in the monitor.

| | Shooting mode | Playback mode |
|---|---|---|
| Show info |   |   |
| Auto info (default setting) | The same information as in **Show info** is displayed. If no operations are performed after a few seconds, the display will be the same as **Hide info**. The information is displayed again when an operation is performed. | |
| Hide info |  |  |
| Framing grid+ auto info |   In addition to information shown with **Auto info** above, a framing grid is displayed to help frame pictures. It is not displayed when recording movies. |   The same information as in **Auto info** is displayed. |
| Movie frame+ auto info |   In addition to information shown with **Auto info** above, a frame is displayed before recording begins that represents the area that will be captured when recording movies. | The same information as in **Auto info** is displayed. |

# Print Date

MENU button ➔ Y (Setup menu) (□ 104) ➔ Print date

The shooting date and time can be imprinted on images at the time of shooting. This shooting date and time will be imprinted on images when printing, even if the printer does not support date printing (□ 69).




| | |
|---|---|
| DATE | Date |
| | Date is imprinted on images. |
| DATE | Date and time |
| | Date and time are imprinted on images. |
| OFF | Off (default setting) |
| | Date and time are not imprinted on images. |

At settings other than **Off**, the icon for the current setting is displayed in the monitor (□ 8).

## Notes on Print Date

- Imprinted dates form a permanent part of image data and cannot be deleted. The date and time cannot be imprinted on images after they have been captured.
- Print date is disabled in the following situations.
  - When using the **Museum** or **Panorama assist** scene modes, or when **Continuous** is set while using **Pet portrait** scene mode
  - When using sport continuous mode
  - When Continuous (□ 57) is set to **Continuous** or **BSS**
  - When recording movies
- Dates imprinted at an **Image mode** setting (□ 53) of VGA **640×480** may be difficult to read. Select PC **1024×768** or larger when using print date.
- The date is saved using the format selected in the setup menu's **Time zone and date** option (□ 16, 106).

## Print Date and Print Order

When images are printed from DPOF-compatible printers that can print date and shooting information, you can use **Print order** (□ 67) and print the shooting date and shooting information on the images. In such a case, it is unnecessary to imprint date and time on images beforehand using **Print date**.

# Vibration Reduction

MENU button ➔ Y (Setup menu) (□ 104) ➔ Vibration reduction

Specify the vibration reduction setting for shooting still images. Vibration reduction effectively corrects blur that commonly occurs when shooting with zooming or at slow shutter speeds. Set vibration reduction to **Off** when using a tripod to stabilize the camera during shooting.

| | |
|---|---|
| (hybrid icon) | On (hybrid) |
| | Image-sensor shift vibration reduction reduces the effects of camera shake. Additionally, electronic vibration reduction is used to process images and remove the effects of camera shake in the following situations.<br>• When the flash does not fire<br>• When the shutter speed is slower than 1/60 second (at the maximum wide-angle position) or 1/125 second (at the maximum telephoto position)<br>• When **Self-timer** is disabled<br>• When **Continuous** is set to **Single**<br>• When ISO sensitivity is set to 200 or less |
| (VR icon) | On (default setting) |
| | Image-sensor shift vibration reduction reduces the effects of camera shake. |
| OFF | Off |
| | Vibration reduction is disabled. |

The vibration reduction setting can be confirmed in the monitor during shooting (□ 8, 21) (When it is set to **Off**, no icon is displayed).

## Notes on Vibration Reduction

- Vibration reduction may take a few seconds to activate after the power is turned on, or the camera enters shooting mode from playback mode. Wait until the display stabilizes before shooting.
- Due to characteristics of the vibration reduction function, images displayed on the camera's monitor immediately after shooting may appear blurry.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.
- When set to **On (hybrid)**, electronic vibration reduction may not reduce the effects of camera shake if the amount of vibration is very small or very large.
- When set to **On (hybrid)**, electronic vibration reduction does not function if shutter speed is fast or very slow.
- When set to **On (hybrid)**, the camera automatically releases the shutter two times for each shot and processes the image, therefore it takes more time to save captured images. The **Shutter sound** (□ 115) will be heard only once. Only one image is saved.

## Using Vibration Reduction with Movies

Vibration reduction for movie recording can be set with **Electronic VR** (□ 85) in the movie menu (□ 82).

# Motion Detection

| MENU button → 🔧 (Setup menu) (📖 104) → Motion detection |
|---|

Specify whether or not motion detection is used to reduce the effects of subject movement and camera shake when taking still pictures.

| | |
|---|---|
| (Motion detection icon) | Auto (default setting) |
| | When the camera detects subject movement or camera shake, the ISO sensitivity and shutter speed are automatically increased to reduce blurring.<br>Note that motion detection is not active in the following situations:<br>• When the flash is set to ⚡ (fill flash)<br>• When the **ISO sensitivity** option (📖 58) is set fixed at a particular value in 📷 (auto) mode<br>• When using **Multi-shot 16** (📖 57)<br>• In the following scene modes: **Night portrait** (📖 37), **Dusk/dawn** (📖 38), **Night landscape** (📖 39), **Museum** (📖 40), **Fireworks show** (📖 41), **Backlighting** (📖 41), **Pet portrait** (📖 43)<br>• When using Sport Continuous mode (📖 48) |
| OFF | Off |
| | Motion detection is disabled. |

The motion detection setting can be confirmed in the monitor during shooting (📖 8).

When the camera detects shaking and increases shutter speed, the motion detection indicator turns green. When set to **Off**, no icon is displayed.

### ☑ Notes on Motion detection

- Blurring caused by camera shake or subject movement may not be eliminated depending on shooting conditions.
- Motion detection may not function if the subject exhibits significant movement or is too dark.
- The images captured may become somewhat grainy.

# AF Assist

| MENU button ➔ Y (Setup menu) (□ 104) ➔ AF assist |
|---|

Specify whether or not the AF-assist illuminator is used to help the camera focus when the subject is poorly lit.

**Auto (default setting)**

AF-assist illuminator will be used to assist the focus operation when the subject is poorly lit. The AF-assist illuminator has a range of about 6.0 m (19 ft.) at the maximum wide-angle position and 3.0 m (9 ft. 10 in.) at the maximum telephoto position.
However, the AF-assist illumination will not turn on in some scene modes even if **Auto** is selected (□ 36-43).

**Off**

AF-assist illuminator is disabled. The camera may be unable to focus under dim lighting.

# Sound Settings

| MENU button ➔ Y (Setup menu) (□ 104) ➔ Sound settings |
|---|

Specify sound settings.

**Button sound**

Turn the button sound **On** or **Off**. When **On** (default setting) is selected, a beep will sound once when operations are completed successfully, twice when the focus has been locked, and three times when an error is detected, and Start-up sound will also play when the camera is turned on.

**Shutter sound**

Choose shutter sound from **On** (default setting) or **Off**.
Note that shutter sound cannot be heard when shooting in continuous shooting or BSS scene mode or when recording a movie even when set to **On**.

## Note on Sound Settings

Button sound or shutter sound will not go off when using the **Pet portrait** scene mode.

# Auto Off

MENU button ➔ 🔧 (Setup menu) (📖 104) ➔ Auto off

If no operations are performed for a specified amount of time, the monitor turns off and the camera enters standby mode (📖 15).

Use this option to set the amount of time that passes before the camera enters standby mode.

| Auto off |
|---|
| Choose the time allowed to elapse before the camera enters standby mode if no operations are performed from **30 s** (default setting), **1 min**, **5 min**, and **30 min**. |
| Sleep mode |
| If **On** (default setting) is selected, the camera will enter standby mode when there is no change in the brightness of the subject, even before the time selected in the auto off menu has elapsed. The camera will enter sleep mode after 30 seconds when **Auto off** is set to **1 min** or less, or after 1 minute when **Auto off** is set to **5 min** or more. |



### When the Monitor Has Turned Off to Save Power

- When the camera is in standby mode, the power-on lamp blinks.
- If no operations are performed for another three minutes, the camera will turn off automatically.
- When the power-on lamp is blinking, pressing the following buttons will turn the monitor back on.
  → Power switch, shutter-release button, 📷 button, ▶ button, or ● (🎥 movie-record) button

### Auto Off

The time allowed to elapse before the camera enters standby mode is fixed in the following situations:

- While menus are displayed: 3 minutes
- During slide show playback: Up to 30 minutes

# Format Memory/Format Card

MENU button ➔ Y (Setup menu) (📖 104) ➔ Format memory/Format card

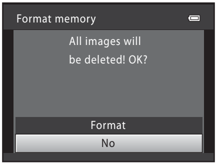
Use this option to format the internal memory or a memory card.

**Formatting the internal memory or memory cards permanently deletes all data. Deleted images cannot be restored.** Be sure to transfer important images to a computer before formatting.

## Formatting internal memory

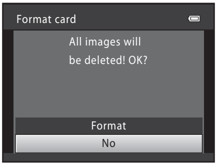
To format the internal memory, remove the memory card from the camera.

The **Format memory** option is displayed in the setup menu.




## Formatting a Memory Card

Insert a memory card in the camera to format it. When the memory card is inserted into the camera, the **Format card** option is displayed in the setup menu.






### ☑ Formatting Internal Memory and Memory Cards

- Do not turn the camera off or open the battery-chamber/memory card slot cover during formatting.
- The first time you insert the memory cards used in other devices into this camera, be sure to format them using this camera.

# Language

MENU button → Y (Setup menu) (📖 104) → Language

Select one of 26 languages for display of camera menus and messages.

| | | | |
|---|---|---|---|
| **Čeština** | Czech | **Português** | Portuguese |
| **Dansk** | Danish | **Русский** | Russian |
| **Deutsch** | German | **Română** | Romanian |
| **English** | (default setting) | **Suomi** | Finnish |
| **Español** | Spanish | **Svenska** | Swedish |
| **Ελληνικά** | Greek | **Türkçe** | Turkish |
| **Français** | French | **Українська** | Ukrainian |
| **Indonesia** | Indonesian | **عربي** | Arabic |
| **Italiano** | Italian | **简体中文** | Simplified Chinese |
| **Magyar** | Hungarian | **繁體中文** | Traditional Chinese |
| **Nederlands** | Dutch | **日本語** | Japanese |
| **Norsk** | Norwegian | **한글** | Korean |
| **Polski** | Polish | **ภาษาไทย** | Thai |

# TV Settings

| |
|---|
| MENU button ➔ Y (Setup menu) (⧉ 104) ➔ TV settings |

Adjust settings for connection to a television.

| Video mode |
|---|
| Choose from **NTSC** and **PAL**. |
| **HDMI** |
| Select the HDMI output image resolution from **Auto** (default setting), **480p**, **720p**, and **1080i**. When set to **Auto**, the resolution is automatically set to **480p**, **720p**, or **1080i** according to high-definition television that is connected to the camera. |
| **HDMI device control** |
| Select whether or not the camera can receive signals from the TV when it is connected to an HDMI-CEC compatible television via an HDMI cable. When this is set to **On** (default setting), a TV remote control can be used to control the camera during playback. → "Using a TV Remote Control (HDMI Device Control)" (⧉ 91) |

### HDMI and HDMI-CEC

HDMI (High-Definition Multimedia Interface) is a multimedia interface. HDMI-CEC (HDMI-Consumer Electronics Control) allows compatible devices to inter-operate.

# Blink Warning

| |
|---|
| MENU button ➔ Y (Setup menu) (⧉ 104) ➔ Blink warning |

Set whether or not to detect human subjects with eyes closed when taking pictures using face detection (⧉ 24) in the following situations.

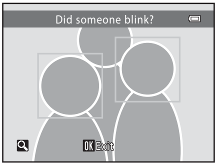
- (Easy auto) mode
- **Portrait** (⧉ 36) or **Night portrait** (⧉ 37) scene modes

| On |
|---|
| When the camera detects that one or more human subjects have closed their eyes shortly after detecting the faces and shooting them, the **Did someone blink?** screen will be displayed in the monitor. The face of the human subject that may have closed his/her eyes is framed by a yellow border. In such a case, you can check the captured image and determine if you take the picture again. → "Operating the **Did someone blink?** Screen" (⧉ 120) |
| **Off (default setting)** |
| Blink warning is disabled. |

## Operating the Did someone blink? Screen

The following operations are available when the **Did someone blink?** screen is displayed.

If no operations are performed for a few seconds, the screen automatically returns to the shooting mode screen.




| Function | Control | Description |
|---|---|---|
| Enlarge and display the face of the person who blinked | **T** (🔍) | Rotate the zoom control to **T** (🔍). |
| Switch to full-frame playback | **W** (▦) | Rotate the zoom control to **W** (▦). |
| Select the face to be displayed |  | If the camera detects more than one human subjects with their eyes closed, press ◀ ▶ during the enlarged display to switch over the face displayed. |
| Delete the captured image | 🗑 | Press the 🗑 button. |
| Return to shooting mode | Ⓚ<br><br>📷<br>● | Press the Ⓚ button, shutter-release button, 📷 button or the ● (🎥 movie-record) button. |

# Reset All

MENU button ➔ Y (Setup menu) (□ 104) ➔ Reset all

When **Reset** is selected, the camera's settings will be restored to their default values.

## Pop-up Menu

| Option | Default value |
|---|---|
| Flash mode (□ 28) | Auto |
| Self-timer (□ 31) | Off |
| Macro mode (□ 51) | Off |
| Exposure compensation (□ 32) | 0.0 |

## Scene Mode

| Option | Default value |
|---|---|
| Scene menu (□ 35) | Portrait |
| Hue adjustment in food mode (□ 40) | Center |
| Pet portrait (□ 43) | Continuous |

## Sport Continuous Menu

| Option | Default value |
|---|---|
| Image mode (□ 49) | PC 1024×768 |
| Sport continuous (□ 49) | Continuous H |

## Shooting Menu

| Option | Default value |
|---|---|
| Image mode (□ 53) | 14M 4320×3240 |
| White balance (□ 55) | Auto |
| Continuous (□ 57) | Single |
| ISO sensitivity (□ 58) | Auto |
| Color options (□ 59) | Standard color |

## Movie Menu

| Option | Default value |
|---|---|
| Movie options (□ 84) | HD 720p (1280×720) |
| Autofocus mode (□ 85) | Single AF |
| Electronic VR (□ 85) | On |
| Wind noise reduction (□ 86) | Off |
| Enhanced resolution (□ 86) | Auto |

## Setup Menu

| Option | Default value |
|---|---|
| Welcome screen (□ 105) | None |
| Photo info (□ 110) | Auto info |
| Image review (□ 110) | On |
| Brightness (□ 110) | 3 |
| Print date (□ 112) | Off |
| Vibration reduction (□ 113) | On |
| Motion detection (□ 114) | Auto |
| AF assist (□ 115) | Auto |
| Button sound (□ 115) | On |
| Shutter sound (□ 115) | On |
| Auto off (□ 116) | 30 s |
| Sleep mode (□ 116) | On |
| HDMI (□ 119) | Auto |
| HDMI device control (□ 119) | On |
| Blink warning (□ 119) | Off |

## Others

| Option | Default value |
|---|---|
| Paper size (□ 99, 100) | Default |

- Choosing **Reset all** also clears the current file number (□ 131) from the memory. Numbering will continue from the lowest number available. To reset file numbering to "0001", delete all images (□ 27) before selecting **Reset all**.
- The following settings in the menus will remain unaffected even if **Reset all** is performed.

  **Shooting menu**:
  Preset manual in the **White balance** menu (□ 56)

  **Setup menu**:
  Images registered for **Welcome screen** (□ 105), **Time zone and date** (□ 106), **Language** (□ 118), **Video mode** (□ 119), and **Battery type** (□ 123)

## Battery Type

MENU button ➔ Y (Setup menu) (□ 104) ➔ Battery type

To ensure that the camera shows the correct battery level (□ 20), choose the type that matches the batteries currently in use.

| | |
|---|---|
| Alkaline (default setting) | LR6/L40 (AA-size) alkaline batteries |
| COOLPIX (Ni-MH) | Nikon EN-MH2 rechargeable Ni-MH (nickel metal hydride) batteries |
| Lithium | FR6/L91 (AA-size) lithium batteries |

# Firmware Version

MENU button ➔ 🔧 (Setup menu) (📖 104) ➔ Firmware version

View the current camera firmware version.



# Caring for the Camera

To ensure continued enjoyment of this Nikon product, observe the following precautions when using or storing the device:

## Keep dry

The device will be damaged if immersed in water or subjected to high humidity.

## Do not drop

The product may malfunction if subjected to strong shock or vibration.

## Handle the lens and all moving parts with care

Do not apply force to the lens, monitor, memory card slot or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

## Do not point the lens at strong light sources for extended periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration of the image sensor, producing a white blur effect in photographs.

## Keep away from strong magnetic fields

Do not use or save this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data saved on the memory card, or affect the product's internal circuitry.

## Avoid sudden changes in temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

## Turn the product off before removing or disconnecting the power source

Do not remove the battery while the product is on, or while images are being saved or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

## The Battery

- After purchasing replacement rechargeable batteries, charge them before use. They are not fully charged at the time of purchase.
  Be sure to read and follow the information found in "Optional Accessories" (📖 129) and in the documentation included with the Battery Charger MH-73 (available separately).
- Check the battery level when taking the camera out, and replace the batteries if necessary (📖 20). If possible, carry spare batteries when taking pictures on important occasions.
- Battery capacity tends to decrease on cold days. Be sure that the batteries are fresh before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- Dirt on the battery terminals can prevent the camera from functioning.
- Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

## Cleaning

| | |
|---|---|
| Lens | Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner. |
| Monitor | Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure. |
| Body | Use a blower to remove dust, dirt or sand, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a dry cloth lightly dampened with fresh water, then dry thoroughly. Note that foreign matter inside the camera could cause damage not covered by the warranty. |

Do not use alcohol, thinner, or other volatile chemicals.

## Storage

Turn the camera off when not in use. Check that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naphtha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below –10 °C (14 °F) or above 50 °C (122 °F)
- Poorly ventilated or subject to humidities of over 60%

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.



### Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images saved using the product will not be affected.
- When framing bright subjects, vertical comet-like streaks that whiten toward either end may appear in the display. This phenomenon, known as “smear”, does not indicate a malfunction. In shooting modes other than Sport continuous mode, Multi-shot 16 and movie mode, smear has no effect on the images that are saved.
- Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

### Note on Smear

White or colored streaks may be visible when bright subjects are framed in the monitor. This phenomenon, known as “smear,” occurs when extremely bright light strikes the image sensor; it is characteristic of image sensors and does not indicate a malfunction. Smear may also take the form of partial discoloration in the monitor during shooting. It does not appear in images recorded with the camera except in the cases of movies and of images recorded with **Multi-shot 16** selected for **Continuous**. When shooting in these modes, we recommend that you avoid bright subjects such as the sun, reflected sunlight, and electric lights.

# Optional Accessories

| | |
|---|---|
| Battery charger/ Rechargeable batteries[1] | • Battery Charger MH-73 (includes four EN-MH2 rechargeable Ni-MH batteries)<br>• Replacement rechargeable batteries: Rechargeable Ni-MH batteries EN-MH2-B4 (set of four EN-MH2 batteries) |
| AC adapter | AC Adapter EH-67 |
| USB cable | USB Cable UC-E6[2] |
| Audio/video cable | Audio Video Cable EG-CP16[2] |
| Lens cap | Lens Cap LC-CP22[2] |

1 When using with the COOLPIX L120, charge the four EN-MH2 rechargeable Ni-MH batteries at a time using Battery Charger MH-73. Also, do not mix batteries that have a different amount of charge remaining (📖 126). EN-MH1 rechargeable Ni-MH batteries cannot be used.

2 Supplied with this camera (➝Page 3 of the *Quick Start Guide*).

## Approved Memory Cards

The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. Movie recording may stop unexpectedly when memory cards with a lower Speed Class rating are used.

| | SD memory card | SDHC memory card [2] | SDXC memory card[3] |
|---|---|---|---|
| SanDisk | 2 GB[1] | 4 GB, 8 GB, 16 GB, 32 GB | 64 GB |
| TOSHIBA | 2 GB[1] | 4 GB, 8 GB, 16 GB, 32 GB | 64 GB |
| Panasonic | 2 GB[1] | 4 GB, 8 GB, 12 GB, 16 GB, 24 GB, 32 GB | 48 GB, 64 GB |
| Lexar | 2 GB[1] | 4 GB, 8 GB, 16 GB, 32 GB | – |

[1] If the memory card will be used with a card reader or similar device, check that device supports 2 GB cards.

[2] SDHC compliant.
If the memory card will be used with a card reader or similar device, check that device supports SDHC.

[3] SDXC compliant.
If the memory card will be used with a card reader or similar device, check that device supports SDXC.

- Contact the manufacturer for details on the above cards.

# File and Folder Names

Images and movies are assigned file names as follows.

**DSCN0001.JPG**

Identifier (not shown on camera monitor)

| | |
|---|---|
| Original still images, movies | DSCN |
| Small copies | SSCN |
| Cropped copies | RSCN |
| D-Lighting copies | FSCN |

Extension (signifies the file type)

| | |
|---|---|
| Still images | .JPG |
| Movies | .MOV |

File number (assigned automatically in ascending order, starting with "0001")

- Files are saved in folders named with a folder number followed by a five-character identifier: "P_" plus a three-digit sequence number for images captured using panorama assist (e.g. "101P_001"; 📖 44) and "NIKON" for all other images (e.g. "100NIKON"). When the number of files within a folder reaches 9999, a new folder will be created. File numbers will be assigned automatically starting with "0001".
- Files copied using **Copy** > **Selected images** are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. **Copy** > **All images** copies all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order, starting from the largest folder number on the destination medium (📖 74).
- Folders can hold up to 200 images; if an image is taken when the current folder contains 200 images, a new folder will be created by adding one to the current folder number. If an image is taken when the current folder is numbered 999 and contains 200 images or an image numbered 9999, no further images can be taken until the medium is formatted (📖 117) or a new memory card inserted.

# Error Messages

The following table lists the error messages and other warnings displayed in the monitor, as well as the solutions for dealing with them.

| Display | Problem | Solution | |
|---|---|---|---|
| Turn the camera off, remove the lens cap, and turn the camera on. | The lens cap may be attached, or a lens error has occurred. | Make sure that the lens cap has been removed, then turn the camera on again. If the error persists even after the camera is turned off and then on again, contact retailer or Nikon-authorized service representative. | 15 |
| (blinks) | Clock not set. | Set clock. | 106 |
| Battery exhausted. | Battery exhausted. | Replace the batteries. | 14, 123 |
| AF● (blinks red) | Camera cannot focus. | • Refocus.<br>• Use focus lock. | 24, 25,<br>50 |
| Please wait for the camera to finish recording. | Camera cannot perform other operations until saving is complete. | Wait until message clears from display automatically when saving is complete. | 25 |
| Memory card is write protected. | Write-protect switch is in "lock" position. | Slide write-protect switch to "write" position. | 19 |
| This card cannot be used. | Error accessing memory card. | • Use approved card.<br>• Check that connectors are clean.<br>• Confirm that memory card is correctly inserted. | 130<br>18<br><br>18 |
| This card cannot be read. | | | |
| Card is not formatted. Format card?<br><br>Yes<br>No | Memory card has not been formatted for use in COOLPIX L120. | All data saved on the memory card will be deleted. If there is any data on the card that you want to keep, select **No**, and backup the data to a computer before formatting the memory card. To format the memory card, select **Yes** and press the OK button. | 19 |

| Display | Problem | Solution | 📖 |
|---|---|---|---|
| Out of memory. | Memory card is full. | • Choose smaller image mode.<br>• Delete images.<br>• Insert new memory card.<br>• Remove memory card and use internal memory. | 53<br>27, 87<br>18<br>18 |
| Image cannot be saved. | Error occurred while saving image. | Format internal memory or memory card. | 117 |
| | Camera has run out of file numbers. | • Insert new memory card.<br>• Format internal memory or memory card. | 18<br>117 |
| | Image cannot be used for welcome screen. | The following cannot be registered as the welcome screen.<br>• Images reduced to 320 × 240 or smaller when edited using crop or small picture<br>• Images captured at an Image mode setting of **4224×2376** or **1920×1080** | 105 |
| | There is not enough memory to copy the image. | Delete images from destination. | 27, 87 |
| Image cannot be modified. | You are trying to edit an image that cannot be edited. | • Confirm the editing features that can be used.<br>• These options cannot be used with movies. | 75<br>– |
| Cannot record movie. | Time out error while recording movie. | Choose memory card with faster write speed. | 18 |
| Memory contains no images. | No images in the internal memory or memory card. | • Remove memory card to play back images from internal memory.<br>• To copy image from internal memory to memory card, press the MENU button. The copy screen will be displayed and images in the internal memory can be copied to memory card. | 18<br>74 |

| Display | Problem | Solution | 📖 |
|---|---|---|---|
| ⓘ File contains no image data. | File not created with COOLPIX L120. | File cannot be viewed on this camera. View file using the computer or any other devices which was used to create or edit this file. | – |
| ⓘ This file cannot be played back. | | | |
| ⓘ All images are hidden. | No images available for a slide show. | – | 70 |
| ⓘ This image cannot be deleted. | Image is protected. | Disable protection. | 71 |
| ⓘ Travel destination is in the current time zone. | Destination in same time zone as home. | – | 109 |
| ⓘ Raise the flash. | The flash is lowered. | Raise the flash when shooting using the **Night portrait** and **Backlighting** scene modes. | 28, 37, 41 |
| ⓘ Lower the flash. | The flash is raised when recording a movie. | Quietly lower the flash. The sound of the flash being lowered may be recorded. | 79 |
| ⓘ Communications error | Error occurred during communication with printer. | Turn camera off, reconnect USB cable. | 98 |
| System error ⓘ | Error has occurred in camera's internal circuitry. | Turn camera off, remove and reinsert battery, and turn camera on. If error persists, contact retailer or Nikon-authorized service representative. | 14 |
| ⓘ Printer error: check printer status. | Printer error. | Check printer. After solving the problem, select **Resume** and press the Ⓚ button to resume printing.* | – |
| ⓘ Printer error: check paper | Specified size of paper is not loaded in printer. | Load the specified paper, select **Resume** and press the Ⓚ button to resume printing.* | – |

| Display | Problem | Solution | 📖 |
|---|---|---|---|
| Printer error: paper jam | Paper has jammed in the printer. | Eject the jammed paper, select **Resume** and press the OK button to resume printing.* | – |
| Printer error: out of paper | No paper is loaded in printer. | Load the specified paper, select **Resume** and press the OK button to resume printing.* | – |
| Printer error: check ink | Ink error. | Check ink, select **Resume** and press the OK button to resume printing.* | – |
| Printer error: out of ink | Ink cartridge is empty. | Replace ink, select **Resume** and press the OK button to resume printing.* | – |
| Printer error: file corrupt | An error caused by the image file has occurred. | Select **Cancel** and press the OK button to cancel printing. | – |

* See the documentation provided with your printer for further guidance and information.

# Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative. Refer to the page numbers in the right-most column for more information.

## Display, Settings and Power Supply

| Problem | Cause/Solution | 📖 |
|---|---|---|
| Monitor is blank | • Camera is off.<br>• Battery exhausted.<br>• Standby mode for saving power: Press the power switch, shutter-release button, 📷 button, ▶ button, or ● (🎥 movie-record) button<br>• When flash lamp blinks red, wait until flash has charged.<br>• Camera and computer are connected via USB cable.<br>• Camera and TV are connected via audio/video cable or HDMI cable. | 20<br>20<br>13, 15<br><br>30<br><br>93<br><br>90 |
| Monitor is hard to read | • Adjust monitor brightness.<br>• Monitor is dirty. Clean monitor. | 110<br>127 |
| Camera turns off without warning | • Battery exhausted.<br>• Camera has turned off automatically to save power.<br>• Battery is cold. | 20<br>116<br><br>126 |
| Date and time of recording are not correct | • Images captured while the clock is not set will have a time stamp of “00/00/0000 00:00”; movies will be dated “01/ 01/2011 00:00”. Set the correct date and time using **Time zone and date** in the setup menu.<br>• Check camera clock regularly against more accurate timepieces and reset as required. | 16<br><br><br><br>106 |
| No indicators displayed in monitor | **Hide info** is selected for **Photo info**. Select **Show info**. | 110 |
| **Print date** not available | Camera clock has not been set. | 16, 106 |
| Date not imprinted on images even when **Print date** is enabled. | • Print date cannot be used with the current shooting mode.<br>• Print date cannot be used when recording movies. | 112 |
| Screen for setting date and time is displayed when camera is turned on. | The clock battery is exhausted; all settings were restored to their default values. | 108 |
| Camera settings reset. | | |

| Problem | Cause/Solution | 📖 |
|---|---|---|
| Monitor turns off, and the power-on lamp blinks rapidly. | Battery temperature is high. Turn off camera and allow battery to cool down before resuming use. After the lamps blink for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera. | 14 |

**Electronically Controlled Cameras**

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, then turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon-authorized service representative. Note that disconnecting the power source as described above may result in the loss of any data not saved to internal memory or the memory card at the time the problem occurred. Data already saved will not be affected.

## Shooting

| Problem | Cause/Solution | 📖 |
|---|---|---|
| No picture taken when shutter-release button is pressed. | • When the camera is in playback mode, press the 📷 button, shutter-release button, or ● (🎥 movie-record) button.<br>• When menus are displayed, press the MENU button.<br>• Battery exhausted.<br>• When flash lamp blinks, flash is charging. | 10, 26<br>12<br>20<br>30 |
| Cannot use shooting mode. | Disconnect the HDMI cable or USB cable. | 90, 93, 98 |
| Camera cannot focus. | • The subject is too close to the camera. Try shooting with easy auto mode, **Close-up** scene mode, or macro mode.<br>• The intended subject is one with which autofocus does not perform well.<br>• Set **AF assist** in the setup menu to **Auto**.<br>• Focus error. Turn camera off and then on again. | 20, 34, 39, 51<br>25<br>115<br>14 |
| Images are blurred. | • Use flash.<br>• Raise the ISO sensitivity.<br>• Use vibration reduction or motion detection.<br>• Use BSS (Best Shot Selector).<br>• Use tripod and self-timer. | 28<br>58<br>113, 114<br>57<br>5, 31 |

| Problem | Cause/Solution | 📖 |
|---|---|---|
| Streaks of light or partial discoloration are visible in the monitor. | Smear may occur when the camera is aimed at a bright subject. When using multi-16, sport continuous, or when recording movies, avoid bright objects such as the sun, reflections of the sun, and electric lights. | 128 |
| Bright specks appear in images captured with flash. | Flash is reflecting off particles in air. Set flash mode to ⊛ (Off). | 7, 28 |
| Flash does not fire. | • Flash mode is set to ⊛ (Off).<br>• Scene mode in which flash does not fire is selected.<br>• Sport continuous mode is selected.<br>• A feature that cannot be used with the flash is selected. | 7, 28<br>35<br><br>48<br>60 |
| Digital zoom cannot be used. | Digital zoom cannot be used in the following situations.<br>• When **Portrait**, **Night portrait**, or **Pet portrait** is selected for scene mode<br>• When smart portrait mode is selected<br>• When **Multi-shot 16** is selected for **Continuous** | <br><br>36, 37, 43<br>46<br>57 |
| **Image mode** not available. | A feature that cannot be used with image mode is selected. | 60 |
| No sound when shutter is released. | **Off** is selected for **Sound settings** > **Shutter sound** in setup menu. Depending on the current shooting mode or settings, the shutter sound is not heard even when set to **On**. | 115 |
| AF-assist illuminator does not light. | **Off** is selected for **AF assist** option in camera setup menu. AF-assist illuminator may not light depending on the position of the focus area or the current scene mode, even when **Auto** is selected. | 36-43, 115 |
| Images appear smeared. | Lens is dirty. Clean lens. | 127 |
| Hues are unnatural. | White balance or hue is not adjusted properly. | 55 |
| Randomly spaced bright pixels ("noise") appear in image. | The subject is dark, so shutter speed is too slow or ISO sensitivity is too high.<br>• Noise can be reduced by using flash.<br>• Select a lower ISO sensitivity. | <br><br>28<br>58 |

| Problem | Cause/Solution | 🕮 |
|---|---|---|
| Images are too dark (underexposed). | • Flash mode is set to ⊛ (Off).<br>• Flash window is blocked.<br>• Subject is beyond flash range.<br>• Adjust exposure compensation.<br>• Raise the ISO sensitivity.<br>• Subject is backlit. Select the **Backlighting** scene mode, or raise the flash and set the flash mode to ⚡ (fill flash). | 7, 28<br>22<br>28<br>32<br>58<br>28, 41 |
| Images are too bright (overexposed). | Adjust exposure compensation. | 32 |
| Unexpected results when flash set to ⚡◉ (auto with red-eye reduction). | When taking pictures with ⚡◉ (auto with red-eye reduction), or when taking pictures with **Night portrait** (either in easy auto mode or the **Night portrait** scene mode) and the fill flash with slow sync and red-eye reduction is used, red-eye reduction may be applied, in rare cases, to areas not affected by red-eye. Use auto mode or any scene mode other than **Night portrait**, and change the flash mode to any setting other than ⚡◉ (auto with red-eye reduction) and try taking picture again. | 34, 28, 37 |
| Saving images takes time. | When the flash mode is set to ⚡◉ (auto with red-eye reduction), it may take more time to save images. | 28 |
| A ring-shaped belt or rainbow-colored stripe appears in the monitor or images. | When shooting with backlighting or when a very strong light source (such as sunlight) is in the frame, a ring-shaped belt or rainbow-colored stripe (ghosting) may occur. Change the position of the light source, or frame the picture so that the light source does not enter the frame and try again. | – |

## Playback

| Problem | Cause/Solution | 🕮 |
|---|---|---|
| File cannot be played back. | • File was overwritten or renamed by computer or other make of camera.<br>• Only movies recorded with COOLPIX L120 can be played back. | –<br>87 |
| Cannot zoom in on images. | • Playback zoom cannot be used with movies, small pictures, or images that have been cropped to 320 × 240 or smaller.<br>• This camera may not be able to zoom in on images captured with another make or model of digital camera. | – |

| Problem | Cause/Solution | 📖 |
|---|---|---|
| Cannot use D-Lighting, small picture, or crop options. | • These options cannot be used with movies.<br>• Images captured at an **Image mode** setting of 16:9 10M **4224×2376** or 16:9 2M **1920×1080** cannot be edited.<br>• Select image that supports D-Lighting, small picture, or crop.<br>• Camera is unable to edit images captured with other cameras. | 87<br>53<br><br>75<br>75 |
| Images not displayed on television. | • Select the correct **Video mode** or **HDMI TV settings** (**Setup menu** > **TV settings**).<br>• Memory card contains no images. Replace memory card. Remove memory card to play back images from internal memory.<br>• An audio/video cable or a USB cable is connected to the camera while an HDMI cable is also connected. | 119<br>18<br>91 |
| Nikon Transfer 2 does not start when camera is connected. | • Camera is off.<br>• Battery exhausted.<br>• USB cable is not correctly connected.<br>• Camera is not recognized by the computer.<br>• Computer is not set to launch Nikon Transfer 2 automatically. For more information about Nikon Transfer 2, refer to help information contained in Nikon Transfer 2.<br>• Confirm system requirements. | 20<br>20<br>93<br>–<br>96<br>92 |
| Images to be printed are not displayed. | • Memory card contains no images. Replace memory card.<br>• Remove memory card to print images from internal memory. | 18 |
| Cannot select paper size with camera. | Even when using a PictBridge compatible printer, paper size cannot be selected from the camera in the following situations. Use the printer to select paper size.<br>• The printer does not support the paper sizes used by the camera.<br>• The printer automatically selects the paper size. | <br>99, 100<br>– |

# Specifications

Nikon COOLPIX L120 Digital Camera

| | | |
|---|---|---|
| Type | | Compact digital camera |
| Effective pixels | | 14.1 million |
| Image sensor | | 1/2.3-in. type CCD; 14.48 million total pixels |
| Lens | | 21× optical zoom, NIKKOR lens |
| | Focal length | 4.5-94.5mm (angle of view equivalent to that of 25-525 mm lens in 35mm[135] format) |
| | f/-number | f/3.1-5.8 |
| | Construction | 12 elements in 9 groups |
| Digital zoom | | Up to 4× (angle of view equivalent to that of approx. 2100 mm lens in 35mm [135] format) |
| Vibration reduction | | Combination of image-sensor shift and electronic VR (still pictures)<br>Electronic VR (movies) |
| Autofocus (AF) | | Contrast-detect AF |
| | Focus range (from lens) | • Approx. 50 cm (1 ft. 8 in.) to ∞ (W); approx. 1.5 m (5 ft.) to ∞ (T)<br>• Macro mode: 1 cm (0.4 in.) (middle zoom position) to ∞ |
| | Focus-area selection | Center, face detection |
| Monitor | | 7.5 cm (3-in.), approx. 921k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment |
| | Frame coverage (shooting mode) | Approx. 97% horizontal and 97% vertical (compared to actual picture) |
| | Frame coverage (playback mode) | Approx. 100% horizontal and 100% vertical (compared to actual picture) |
| Storage | | |
| | Media | Internal memory (approx. 102 MB), SD/SDHC/SDXC memory card |
| | File system | DCF, Exif 2.3, and DPOF compliant |
| | File formats | Still pictures: JPEG<br>Movies: MOV (Video: H.264/MPEG-4 AVC, Audio: AAC, stereo) |
| Image size (pixels) | | • 14M (High) [4320×3240★]<br>• 14M [4320×3240]<br>• 8M [3264×2448]<br>• 5M [2592×1944]<br>• 3M [2048×1536]<br>• PC [1024×768]<br>• VGA [640×480]<br>• 16:9 [4224×2376]<br>• 16:9 [1920×1080] |
| ISO sensitivity (Standard output sensitivity) | | ISO 80, 100, 200, 400, 800, 1600, 3200, 6400, Auto (ISO 80-800), Sport continuous mode (ISO 400-3200) |

| | | |
|---|---|---|
| Exposure | | |
| | Metering | 256-segment matrix, center-weighted (digital zoom less than 2×), spot (digital zoom 2× or more) |
| | Exposure control | Programmed auto exposure with motion detection and exposure compensation (-2.0 to +2.0 EV in steps of 1/3 EV) |
| Shutter | | Mechanical and charge-coupled electronic shutter |
| | Speed | • $^{1}/1000$ -1 s<br>• 4 s (**Fireworks show** scene mode)<br>• $^{1}/4000$ - $^{1}/60$ s (sport continuous mode) |
| Aperture | | Electronically-controlled ND filter (-3 AV) selection |
| | Range | 2 steps (f/3.1 and f/8.7 [W]) |
| Self-timer | | Approx. 10 seconds |
| Built-in flash | | |
| | Range (approx.)<br>(ISO sensitivity: Auto) | [W]: 0.5 to 6.0 m (1 ft. 8 in. to 19 ft.)<br>[T]: 1.5 to 3.0 m (5 ft. to 9 ft. 10 in.) |
| | Flash control | TTL auto flash with monitor preflashes |
| Interface | | Hi-Speed USB |
| | Data transfer protocol | MTP, PTP |
| Video output | | Can be selected from **NTSC** and **PAL** |
| HDMI output | | Can be selected from **Auto**, **480p**, **720p**, and **1080i** |
| I/O terminal | | Audio video output/digital I/O (USB), HDMI mini connector (HDMI output), DC input connector |
| Supported languages | | Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, Greek, German, Hungarian, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Norwegian, Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian |
| Power sources | | • Four LR6/L40 (AA-size) alkaline batteries<br>• Four FR6/L91 (AA-size) lithium batteries<br>• Four EN-MH2 rechargeable Ni-MH batteries (available separately)<br>• AC Adapter EH-67 (available separately) |
| Battery life | | Still pictures*:<br>• Approx. 330 shots when using alkaline batteries<br>• Approx. 890 shots when using lithium batteries<br>• Approx. 520 shots when using EN-MH2 batteries<br>Movies:<br>• Approx. 3 h 5 min when using alkaline batteries (**HD 720p**)<br>• Approx. 7 h 45 min when using lithium batteries (**HD 720p**)<br>• Approx. 4 h 25 min when using EN-MH2 batteries (**HD 720p**) |
| Tripod socket | | 1/4 (ISO 1222) |
| Dimensions (W × H × D) | | Approx. 109.9 × 76.5 × 78.4 mm (4.4 × 3.1 × 3.1 in.) (excluding projections) |

| | |
|---|---|
| Weight | Approx. 431 g (15.3 oz)<br>(including batteries and SD memory card) |
| Operating environment | |
| Operating temperature | 0 to 40°C (32 to 104°F) |
| Humidity | Less than 85% (no condensation) |

- Unless otherwise stated, all figures are basically for a camera with fully-charged LR6/L40 (AA-size) alkaline batteries operated at an ambient temperature of 25 °C (77 °F). Data for lithium batteries apply when using four commercially available FR6/L91 (AA-size) Energizer(R) Ultimate Lithium batteries.

* Based on Camera and Imaging Products Association (CIPA) standards for measuring the life of camera batteries. Measured at 23 (±2) °C (69 to 77°F); zoom adjusted with each shot, flash fired with every other shot, image mode set to 14M **4320×3240**. Battery life may vary depending on shooting interval and length of time menus and images are displayed. Data for lithium batteries apply when using four commercially available FR6/L91 (AA-size) Energizer(R) Ultimate Lithium batteries. Supplied batteries are for trial use only.

## Specifications

Nikon will not be held liable for any errors this manual may contain.

The appearance of this product and its specifications are subject to change without notice.

## Supported Standards

- **DCF**: Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.
- **DPOF**: Digital Print Order Format is an industry-wide standard that allows images to be printed from print orders saved on the memory card.
- **Exif version 2.3**: This camera supports Exif (Exchangeable Image File Format for Digital Still Cameras) version 2.3, a standard that allows information saved with photographs to be used for optimal color reproduction when images are output from Exif-compliant printers.
- **PictBridge**: A standard developed cooperatively by the digital camera and printer industries, allowing photographs to be output directly to a printer without connecting the camera to a computer.

# Index



Technical Notes

Nikon



CE

NIKON CORPORATION

CT1B03(11)



*6MM02811-03*